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- Petri, 2080; Siebenbürgens Käferfauna.
- Reitter, 2270; *Silphidae* n. gen. Herzegowina.
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- Tyl, 2835; Austria *Omius* sp. n.
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- Wichmann, 3115; *Trypophloeus* sp. n. Süd-Tirol.
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- Jacentkovskij, 1361; Polen, *Ipidae* (Russ.).
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- Reichensperger, 2249; Ameisenfauna der Rheinprovinz.
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- Frey-Gessner, 975; Catalogue of *Apidae* of Switzerland.
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Neuroptera.

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Diptera.

Böttcher, 252; *Sarcophaga* spp. n.

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Czižek, 642 & 644; *Tipula* sp. n. Mähren.

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Vimmer, 2895; *Diptera Bohemiac.*

Aphaniptera.

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Meijere, 1801; *Hamamelistes* sp. n.

Schmidt, 2458; Pommern.

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Plecoptera.

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 †Handlirsch, 1173; Insekten aus dem mittleren Oberkarbon des Königreiches Sachsen; gen. n. 5 spp. n.
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 Šugurov, 2715; Grusien, *Oedipodidae* gen. n. sp. n.

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 †Olfers, 1995; Thysanur im Bernstein.
 Prell, 2177; *Eosentomon*, sp. n.
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 Loisele, 1698; Deux nouveaux insectes Cécidogènes.

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Buysson; Elatérides de Saône-et-Loire.

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Deville, 705 & 706; Wimcreux.

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Falcoz, 890; Dévoluy Hautes-Alpes.

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Picquenard, 2125; Finistère.

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Hemiptera.

Lambertie, 1621.

Lambertie, 1622; Nouveaux ou rares de la Gironde.

Peneau, 2055; Notules.

Psocoptera.

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(g) South Europe and Mediterranean Basin.

Insecta, collectively.

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Navas, 1924; Névroptères, s.l., de Corse.

(N-9210 j)

Morton, 1888; Bouches du Rhone and Sierra Albarracin.

Jeannel & Peyerimhoff, 1890; Maroc oriental.

Royer, 2374; Beni-Swassen.

Coleoptera.

Apfelbeck, 49a; Balkan penins. spp. n.

Bondroit, 268; *Stenus*, spp. n.

Wagner, 2932; *Apion* 2 spp. n.

Cameron, 471; Portugal *Vesperus*. sp. n.

Csiki, 632a; Balkans *Hylaia* sp. n.

Bolívar, 263; Spain *Broscus* sp. n.

Escalera, 875; Spain *Asida* 2 spp. n.

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Lauffer, 1637; *Dorcadion* of Spain 3 spp. n.

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Bernhauer, 206; Sicily *Zyras* sp. n.

Bondroit, 269; Italy *Stenus* sp. n.

Della Beffa, 683; *Coccinellidae* italiani, revisione.

Della-Beffa, 684; *Coleotteri* della Valle di Susa (Piemonte).

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Eggers, 820; Sicilia *Scolytidae* 3 spp. n.

Fiori, 936; Italy *Malthodes* sp. n.

Fiori, 937; topografiche italiane.

Mancini, 1756; *Anophthalmus* sp. n.

Ragusa, 2224; Sicilia.

Roubal, 2368; Sicily *Cryptocephalus* sp. n.

Vitale, 2903; Sicilia, *Cicindela*.

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Bedel, 163; *Liosoma* de Corse.

Sainte-Claire Deville, 710; Catalogue Corse.

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Krausse, 1566; Sardinien.

Krausse-Heldrungen, 1570; Genargentugebirge Sardinien.

Reitter, 2254; Sardinia *Rhinosimus* n. sp.

Strohmeyer, 2708; Sardinien *Dryocoetes* sp. n.

Cameron, 470; Malta *Trogophiloeus* sp. n.

Depoli, 696; *Dorcadion* Liburnia, spp. n.

Formánek, 962; *Torneuma* sp. n. Dalmatien.

Karaman e Novak, 1448; Dalmatia.

Matits, 1791; *Bembidium* n. sp. Serbien.

Reitter, 2264; *Bacanius* sp. n. Dalmatien.

Reitter, 2265; *Cryptophagus* sp. n. Dalmatien.

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Reitter, 2271; *Silphidae* n. gen. Bosnien.

Schatzmayr, 2424; Valle d'ospo.

Holdhaus, 1266; des Monte Gargano, der Adriatisfrage.

Gridelli, 1115; escursioni Küstenland.

Müller, 1907; *Athous* der ostadriatischen Provinzen.

Meyer, 1827; Des Karstgebietes bei Fiume.

Heyrovský, 1250; *Oedemeridae* Bulgariens.

Penecke, 2057; *Mycetochara* und *Rhagonycha* spp. n. Bulgarien.

Reitter, 2268; *Athous* sp. n. Bulgarien.

Reitter, 2263; *Alophus rhodopensis* sp. n.

Müller, 1905; *Athous* Karstprovinzen Dalmatien.

Krekich-Strassoldo, 1572; *Anticidi* del litorale e della Dalmazia.

Cameron, 468; Turkey *Xantholinus* sp. n.

Wagner, 2934; *Stomodes* 2 spp. n. Rumänien and Griechenland.

Bickhardt, 229; Algier *Saprinus* sp. n.

Daniel, 659; deux nouveaux du nord de l'Afrique.

Grouvelle, 1140; *Cryptophagus* nouveaux d'Algérie.

Grouvelle, 1141; *Brachyleptus* nouveaux d'Algérie et de Tunisie.

Lesne et Orbigny, 1679; Mauritanie.

Normand, 1967; *Cephennium* du nord africain.

Normand, 1968; faune tunisienne *Stenichnus* spp. n.

Obenberger, 1977; N. Africa *Anthaxia* 2 spp. n.

Peyerimhoff, 2082; phytophages du nord africain 2 spp. n.

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Hustache, 1344; *Nargus* sp. n. Syria.

Reitter, 2258; *Otiorrhynchus* sp. n. Kleinasien.

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Hymenoptera.

Emery, 835; Der Wanderzug der Steppen- und Wüstenameisen von Zentral-Asien nach Süd-Europa und Nord-Afrika.

Mantero, 1762; Cinipidi di Liguria.

Mercet, 1812; Spain *Aphelinus* sp. n.

Mercet, 1813 & 1814; Spain *Prospaltella* sp. n.

Mercet, 1815; Spain *Mymaridae* 2 spp. n., gen. n.

De Stefani Perez, 700; Sicily *Cynips* sp. n.

Krausse, 1564; sardische Ameisen.

Du Buysson, 774; *Chrysidae* nouveaux Maroc.

Ferton, 927; nouveaux d'Algérie.

Karavajev, 1449; Formiciden Italien, Nord-Afrika.

Krausse, Wien. ent. Zeit. 31 p. 250; *Formica fusca glebaria* Sardinien.

Morley, 1884; Cyprus *Metopius* sp. n.

Pagnetti-Hummeler, 2029; Apiden Coifu.

Santschi, 2408; Nouvelles Fourmis de Tunisie.

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Santschi, 2410; Mauritanie occidentale.

Schmiedeknecht, 2465; gen. n. *Ichneumon*. Tunis.

Smits van Burgst, 2622; Tunisian Ichneumonidae, 5 spp. n.

Stauder, 2646; algerischen Formiciden.

Turner, 2827; Haut-Kharoum *Stizus* sp. n.—Turner, 2830; Mogador *Gorytes* sp. n.

Pérez, 2059; Mellifères spp. n. Syrie.

Strand, 2680; Syria *Iphiaulax* spp. n.

Zavattari, 3243; Sardegna.

Lepidoptera.

Rebel, 2238; *Piletocera aegimiussalis* Mediterrangebiet.

Warren, 2958; *Leptosia* sp. n.

Mendes, 1810; Portugal S. Fiel annotated list.

Codina, Boll. soc. Aragon 10 pp. 113-117; Catalonia short annotated list.

Fernández, 925; Sierra de Jaen list.

Gervais d'Aldin, 1035; Andalousie.

Ribbe, 2297; Andalusien.

Wagner, 2927; Reise nach Andalusien.

Woodward, Ent. Rec. 24 pp. 172-174; Gibraltar.

Barrett, Entomologist 45 p. 231 etc.; Messina trip.

Harrison, 1181; Italy *Ithysia* sp. n.

Lepidotteri del Piemonte; Rocci, 2329.

Rhopalocera et *Sphinges* faunae romanae; Rostagno, 2346.

Rostagno, 2347; Bombyces faunae romanae.

Turati, 2817; Sicilia 7 spp. n.

Turati & Verity, 2819; *Heterocera*, *Microlepidoptera*, *Rhopalocera* Alpi marittime.

Turati, 2816; Sardinia 4 spp. n., *Noctuidae* and *Ocnieria*.

(N-9210 j)

Rebel, 2236; Korfu.

Rebel, 2233; Monto Maggiore Istrien.

Schawerda, 2429; Bosniens und Herzegowina.

Buxton, T. A. & Buxton, D. A. J., Ent. Rec. 24 pp. 59-63; Greece trip.

Meyrick, 1835; Greece *Acrocercops* sp. n.

Drenowsky, 760; höchsten Teiles des Zentral-Balkans.

Graves, Ent. Rec. 24 pp. 293 & 294; Constantinople notes.

Draudt, 759; neue Acidalien Aegypten.

Emmerich-Hoegen, *Glottula pancratii* Tunis; Intern. ent. Zs. 6 p. 274.

Herzog, 1237; Berichtigung Aegypten und Syrien.

Holl, *Pierides* Notes; Alger Bul. soc. sci. nat. 4 p. 170-180.

Holl, 1269; Microlepidoptères algériennes.

Holl, 1270; Notes.

Holl, 1271; *Zygaena* d'Alger.

Le Cerf, 1647; Mauritanie.

Oberthür, 1981; *Hybocampa* sp. n. algérien. Paris.

Oberthür, 1982; Algeria *Augiades* sp. n.

Rebel, 2232; Unter-Aegyptens spp. n.

Rothschild, 2357; Algeria *Lambessa* sp. n.

Rothschild, 2360; Algeria spp. n., *Lymantria*, *Noctuidae* and *Geometridae*.

Turati, *Tæniocampa witzmanni* en Algérie et en Sardaigne. Paris Bul. soc. ent. 1912 p. 414-417 av. fig.

Bang-Haas, 106; Syria *Dolbina* sp. n.

Chapman, 513; Lebanon *Agriades* sp. n.

Culot, 637; Liban *Syntomis tricingula*.

Meyrick, 1837; Asia minor and Algeria *Adelidae* spp. n.

Meyrick, 1839; Asia minor spp. n. d 27-2

Neuroptera.

- Andréu, 37; Spain *Boriomyia* sp. n.
 Lacroix, 1612; Algérie et Tunisie
 2 spp. n.
 Navás, 1915; Syria *Solter* sp. n.,
 Atlas *Neuroleon* etc., Egypt spp. n.
 Navás, 1916; genn. and spp. n.
 Navás, 1917; *Ohrysopa* sp. n.
 Navás, 1920; Egypt *Nesoleon* sp. n.
 Navás, 1926; Algérie spp. n.
 Navás, 1933; Algeria *Nelees* sp. n.
 Petersen, 2075; Corsica.

Diptera.

- Andréu, 38; Spain *Tipulidae*.
 Arias, 50; Spain *Asilus* sp. n.
 Arias, 51; Spain Additions.
 Becker, 158; Pyrenäen *Phoridae*
 gen. n.
 Escobet, 836; Spain, Catalogue.
 Villeneuve, 2886; *Sarcophaga* n. sp.
 Greece.
 Newstead, 1955; Malta *Phlebotomus*
 sp. n.
 Kertész, 1489; Creta gen. n. *Acaly-
 ptratae*.
 Alexander & Leonard, 27; Ile
 Djerba *Geranomyia* sp. n.
 Becker, 161; *Thereviden* gen. n.
 2 spp. n. Aegypten.
 Bezzi, 218; liste des Asilidés de la
 Tunisie.
 Weiss, 2993; Djerba *Phora chloro-
 gastra*.
 Kertész, 1490; *Glabellula* n. sp.
 Asia minor.

Aphaniptera.

- Jordan & Rothschild, 1439; Portugal
Palaeopsylla sp. n.
 Jordan & Rothschild, 1442; Algeria
 spp. n.
 Krausse-Heldrungen, 1571; Sardi-
 sche Flöhe.

Hemiptera.

- Bergevin; Biskra *Vibertiola cinerae*;
 Bull. Soc. Alger 1911 p. 126.
 Bueno Bol. Soc. Aragon 10 pp. 184-
 186 & 195-203; Spain list.—Bueno

op. cit. 11 pp. 169-174; Catalonia
 short list.

MacGillavry, 1741; *Heteroptera*
 Corsika.

Poppius, 2155; *Heteroptera* Algier.

Reuter & Poppius, 2288; Egypt
 and Aden *Termtophylidae* gen. n.

Schumacher, 2521; Rhynchoten von
 der Insel Cypern.

Trabut, 2797; Catalogue coche-
 nilles, Algérie.

Isoptera.

Silvestri, 2591; Tunis genn. & spp. n.

Pseudoneuroptera.

Bartenev, 133; Montenegro.

Orthoptera.

- Ebner, 802; Griechenland.
 Krauss, 1568; Sardinien.
 Krausse-Heldrungen, 1569; Der-
 mapteren auf Sardinien.

Aptera.

Silvestri, 2592; Portici *Campodeidae*
 spp. n.

(h) Caucasus, West & Centr. Asia.

Insecta, collectively.

Zaicev, 3238; Spätherbstfauna von
 Abchasien (Russ.).

Coleoptera.

- Demaison, 687; notes Asie mineure.
 Fleischer, 938; *Dyschirius* sp. n.
 Taschkent.
 Kerremans, 1482; Caucasus and
 Persia *Sphenoptera* sp. n.
 Kožan ikov, 1562; Transcaspian,
Aphodiini spp. n.
 Lamecre, 1625; Bagdad *Prionus*
 sp. n.
 Ohaus, 1985; Arabia *Adoretini* sp. n.
 Petri, 2078; *Lixus* n. sp. Turkestan.
 Reitter, 2257; *Myiodes* sp. n.
 Transkaukasus.
 Reitter, 2259; *Malegia* spp. n.

Reitter, 2260; *Neobaris* sp. n.
Transkaukasien.

Roubal, 2366; *Kaukasus Lesteva*
sp. n.

Roubal, 2367; spp. n. *Kaukasus*.

Sumakov, 2724; Russisch-Mittel-
asien.

Suvorov, 2737; Alashan *Neodorca-*
dion spp. n.

Hymenoptera.

Kokujev, 1552; Turkestan, *Ichneu-*
monidae spp. nn.

Kokujev, 1553; Kreis-Aresch, *Ves-*
pidae, *Apidae*, *Fossores*, *Parasitica*,
spp. n.

Mocsáry, 1858; *Caucasus Chrysis*
spp. n.

Mocsáry, 1858; *Arabia Chrysis*
sp. n.

Semenov, 2547; Transcaucasia, Mon-
golia, etc., *Chrysididae* spp. n.

Lepidoptera.

Burrows, 450; Turkestan *Hydroecia*
sp. n.

Čugunov, 633; Kuznecki-Alatau.

Jachontov, 1865; Kaukasische Arc-
tiiden.

Krulikovskij, 1583; Centralasiens.

Miller, 1846; *Lycaenidae* 2 spp. n.
Transkaukasien.

Pagenstecher, 2028; *Parnassius*
apollo, Kaukasien.

Prout, 2181; Sokotra *Eucrostes*
sp. n.

Neuroptera.

Navás, 1928; W. Asia *Myrmecae-*
lurus sp. n.

Navás, 1920; Muscat.

Navás, 1930; *Kaukasus* gen. n.
Panorpatae.

Diptera.

Becker & Stein, 160; Persien spp.
nn.

Aphaniptera.

Dampf, 657; *Kaukasus, Ischno-*
psyllus sp. n.

Hemiptera.

Kiričenko, 1520; Turkestan, Bu-
chara, Transcaspia *Hemiptera-Hetero-*
ptera spp. nn.

Poppius, 2163; Neue Miriden.

Pseudoneuroptera.

Bartenev, 137; Odonaten des Tifliser
Museums (Russ.).

Bartenev, 138; Transkaukasien spp.
n. (Russ.).

Orthoptera.

Burr, 441; *Kalocrania* sp. n.

Burr, 445; Collecting, Caucasus and
Transcaucasus.

Ebner, 801; Mesopotomier 2 spp. n.

Šugurov, 2716; Pontische Küste
des Kaukasus.

Uvarov, 2846; Transcaspiens, spp.
n.

Uvarov, 2847; Kaukasische *Psoro-*
donotus sp. n.

Uvarov, 2848; Turkestan, g. n.,
Platycleis sp. n.

Africa.

Insecta, collectively.

Houard, 1313; Zoocécidies du nord
de l'Afrique.

Howard, 1324; Mozambique
injurious insects.

Schouteden, etc., 2485; spp. n.

Simpson, 2600; S. Nigeria malevo-
lent insects.

Coleoptera.

Alluaud, 32; *Carabomorphus* spp. n.

Aurivillius, 69; Abyssinie et l'Afri-
que orientale *Curculionidae* spp. n.

Bernhauer, 208; Staphyliniden.—
Bernhauer, 213; Neue Staphyliniden.

Bickhardt, 229; *Histeridae* spp. n.

Bolkay, 264; *Anisognathus* sp. n.

Boppe, 272; Ce rambycides nouveaux
l'Afrique et de Madagascar.

Cameron, 469; Red Sea *Bledius* sp. n.—Cameron, 472; Massowah *Scopaeus* sp. n.

Chatanay, 519; *Lichenum* du Sénégal.—Chatanay, 521; genre nouveau *Caediaires*.

Clavareau, 542; *Criocerides* spp. n.—Clavareau, 544; *Corynodes* spp. n.

Dupuis, 784; *Cyclosomus* sp. n.

Eichelbaum, 823; Kilimandjaro zwei *Philonthus* spp. n.

Floutiaux, 941; *Eucnemidae* spp. n.

Gebien, 1023; *Tenebrionidae*.—Gebien, 1024; *Tenebrionidae* spp. n.

Gestro, 1038; Uganda *Hispidae* spp. n.—Gestro, 1040; Uganda *Ichthyurus* spp. n.—Gestro, 1042; Somali *Paussus* sp. n.

Grouvelle, 1137; Congo *Nitidulidae* and *Colydiidae* spp. n.—Grouvelle, 1139; *Aphanocephalus* sp. n.

Hagedorn, 1158; *Ipiden* 3 spp. n.—Hagedorn, 1159; Neue Borkenkäfergattungen und Arten.—Hagedorn, 1160; *Scolytidae* spp. n.

Hintz, 1255; *Crossotidae* spp. n.—Hintz, 1256; *Cerambyciden* spp. n.

Horn, 1294; *Cicindelinae*.

Janson, 1383; *Cetoniidae* spp. n.

Jeannel, 1387; *Carabomorphus* sp. n.

Jordan, 1434; *Anthribidae* list, *Deuterocrates* sp. n., *Litotropis* sp. n.—Jordan, 1438; *Cylindroides* sp. n.

Kerremans, 1482; *Buprestidae* 2 spp. n.—Kerremans, 1483; *Buprestidae* spp. n.—Kerremans, 1485; *Buprestidae*.

Kolbe, 1553; *Phaeochroinen* sp. n.

Kuntzen, Heinrich, 1591; *Nerissini* spp. n.—Kuntzen, 1592; *Uhelia* sp. n.—Kuntzen, 1594; *Ennodius* sp. n.

Lesne, 1675; *Bostrychopsis* sp. n.

Marshall, 1768; 3 spp. n., *Azya* and *Cryptognatha*.—Marshall, 1769; *Curculionidae* gen. n.

Möllenkamp, 1861; *Metopodontus* sp. n.

Lewin, 1681; *Blepharida* sp. n.

Lewis, 1682; *Histeridae* 3 spp. n.

Moser, 1892; *Cetoniden* spp. n.

Ohaus, 1985; *Adoretini* spp. n.—Ohaus, 1988; abessinische Ruteliden spp. n.—Ohaus, 1990; *Popillia* sp. n.

d'Orchymont, 2006; *Neohydrophilus* sp. n.

Petri, 2079; *Gasteroclisus* spp. n.

Pic, 2107; *Idgia* sp. n.

Prell, 2173; Africa *Cyphonistes* spp. n.—Prell, 2174; *Dynastini* spp. n.

Sampson, 2404; Uganda *Xyleborus* 2 spp. n.

Schmidt, 2451; *Coprini* spp. n.

Sicard, 2575; Sicard, 2577; *Coccinellidy* spp. n.—Sicard, 2578; *Coccinellidae* spp. n.—Sicard, 2580; *Coccinellidae* spp. n.—Sicard, 2581; 2 spp. n. *Chilocorus* and *Caria*.

Spaeth, 2631; Ostafrikanische Cassiden.—Spaeth, 2632; *Cassidae* spp. n.

Strohmeyer, 2707; *Periommatius* 13 spp. n.—Strohmeyer, 2709; Neue *Platypodiden*.

Wagner, 2931; *Apion* spp. n.

Wasmann, 2961; *Myrmekophilen* spp. n.—Wasmann, 2966; *Mimonomma* neuer *Dorylinengast*.—Wasmann, 2967; *Myrmekophilen* spp. n.

Weise, 2989; *Chrysomelidae* spp. n.—Weise, 2991; *Coccinellidae* spp. n.—Weise, 2992; *Chrysomelidae* spp. n.

Hymenoptera.

Andrieu & Vuillet, 42; *Vipio* sp. n.

Bingham, 231; *Fossoria* spp. n.—Bingham, 231; spp. n., *Notogonia*, *Odynerus*, *Prosopis*, *Halictus*, *Ceratina*.

Brauns, 315; Zusätze und Berichtigungen zu Dr. H. Frieses „Die Bienen Afrikas“.—Brauns, 316; Bienen Afrikas.

Cameron, 473; Congo many spp. n.

Crawford, 615; *Anastatus* sp. n.—Crawford, 616; *Chalcididae* spp. n.

De Stefani Perez, 701; *Chalcididae* gen. n.

Emery, 827; *Myrmicinae* spp. n.—Emery, 833; *Formicidae*.

Enderlein, 839; *Spathiinae* spp. n.—Enderlein, 840; *Eubadizon* sp. n.—Enderlein, 841; *Alysia* sp. n.—Enderlein, 845; *Evania* sp. n.

Enslin, 873; *Tenthredinidae* spp. n.
 Friese, H., 979; Bienen Süd-Afrikas.
 —Friese, 982; *Trigona* sp. n.

Ghigi, 1044; *Osprynchotus* spp. n.

Hedicke, 1193; *Cynipiden* gen. n.

Kieffer, 1501; *Cynipides* et *Béthylides* de l'Afrique du Sud.—Kieffer, 1502; deux nouveaux *Chalcidides*.

Maidl, 1745; *Xylocopa* 6 spp. n.

Meade-Waldo, 1797; *Megachile* 3 spp. n.

Mocsáry, 1857 & 1858; *Chrysis* spp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Santschi, 2411; *Formicidae* spp. n.—Santschi, 2413; *Carebara* spp. n.—Santschi, 2414; *Crematogaster* 2 spp. n.

Schulthess-Rechberg, 2497; *Vespidae* 2 spp. n.—Schulthess-Rechberg, 2498; *Belonogaster* nov. sp.

Strand, 2673; Neue afrikanische *Sphecodes* und *Ceratina* spp. n.

Strand, 2678; Betr. H. Friese.—Strand, 2688; 2 neue *Nomia*. Strand, 2690; Süd-Kamerun und Spanisch-Guinea, *Trigonalidae* genn. n.—Strand, 2691; Kamerun und Spanisch-Guinea Bienen spp. n.—Strand, 2692; *Nomia* spp. n.—Strand, 2702; Neue und *Eriades*, *Steganomus* und *Prosopis*, spp. n.

Szabó, 2749; *Epitritus* sp. n.

Turner, 2825; *Elis* spp. n.—Turner, 2827; *Stizus* 5 spp. n.—Turner, 2828 & 2830; *Fossoria* spp. n.—

Lepidoptera.

Sokotra vide W. Asia *Lepidoptera*.

Aurivillius, 70; *Diestogyna* spp. n.

Druce, 761; *Parnara* sp. n.—Druce, 762; *Mimacrea* 2 spp. n.—Druce, 763; *Lycaenidae* 2 spp. n., gen. n.—Druce, 765; *Ophiussinae* 5 spp. n.—Druce, 766; Cameroons *Ommatothelxis* sp. n.

Eltringham, 826; *Acraea* monograph, 2 spp. n.

Grünberg, 1146; *Rhopalocera* spp. n.

Hampson, 1167; *Pyraustinae* spp. n.—Hampson, 1168; *Agaristidae* 4 spp. n.—Hampson, 1169; *Noctuidae* spp. n.

Le Cerf, 1649; Afrique orientale spp. n.—Le Cerf, 1652; Afrique orientale gen. n. *Aegeriidae*.—Le Cerf, 1655; *Papilio* sp. n.

Mendes, 1811; list.

Meyrick, 1833; *Microlepidoptera* 45 spp. n.—Meyrick, 1839; spp. n., genn. n.

Neave, 1938; *Pseudacraea* sp. n.

Neustetter, 1949; *Cymothoe* sp. n.

Prout, 2180; *Rhodesia Zamarada* spp. n.—Prout, 2181; *Hemitheinae* spp. n.

Rebel, 2234; *Usta* sp. n.

Rothschild, 2358; *Balacra* spp. n.—Rothschild, 2362; *Lithosianae* spp. n.

Rothschild & Jordan, 2364; *Sphingidae* spp. n.

Schouteden, 2482; *Cymothoe* sp. n.

Schultze, 2499; neue *Lipteniden*.—Schultze, 2500; Fünf neue *Mimacraea*-Formen.—Schultze, 2501; *Rhopaloceren* spp. n.

Standfuss, 2642; *Taeniocampa* n. sp. Algier.

Strand, 2670; Kamerun spp. n.—Strand, 2674; Tagfalter und Schwärmer, Abessinien.—Strand, 2675; *Bunaea* sp. n.—Strand, 2676; Westafrikanische *Danaidae*, *Satyridae*, *Nymphalidae*, *Notodontidae* und *Drepanidae*.—Strand, 2677; Mkatta und Morogoro Deutsch Ost-Afrika, spp. n.—Strand, 2679; *Glyphodes* spp. n.—Strand, 2681; Süd-Kamerun und Spanisch-Guinea, *Saturniidae*, *Brahmaeidae*, *Striphnopterygidae*, *Sphingidae*, *Notodontidae*, *Syntomidae*, *Hypsiidae* und *Agaristinae* spp. n.—Strand, 2682; Süd-Kamerun und Spanisch-Guinea *Lasiocampidae* genn. & spp. n.—Strand, 2683; *Lithosiinae* spp. n.—Strand, 2684; Novitäten *Lasiocampidae* und *Lymantriidae*.—Strand, 2685; Süd-Kamerun und Spanisch-Guinea, spp. n.—Strand, 2687; sp. n. *Lobobunaea*.

Strand, 2689; neue *Notodontiden*-gattung.—Strand, 2693; *Eustrotia* sp. n. Gross-Namaland.—Strand, 2695; Zur Kenntnis *Rigema* spp. n.

Trimen, 2800; *Neptis* sp. n.

Zerny, 3247.

Trichoptera.

Ulmer, 2842; *Trichopteren.*

Neuroptera.

Klapalek, 1530; Ägyptischen Sudan und Nord-Uganda 2 spp. nn.

Navás, 1915; spp. n. *Ascalaphides Myrmeleonides.*

Navás, 1916; genn. et spp. n.

Navás, 1917; *Chrysopidae* and *Hemerobiidae* spp. n.

Navás, 1920; *Myrmeleonidae* many spp. n.; 1922. 3 spp. n.

Navás, 1925; *Névroptères nouveaux* ou critiques.

Navás, 1928; spp. n.

Navás, 1932; spp. n. *Ascalaphidae, Myrmeleonidae, Chrysopidae.*

Navás, 1933; *Myrmeleonidae* spp. n.

Navás, 1934; spp. n.

Petersen, 2078; 2 spp. n.

Soldanski, 2629; Süd-Kamerun und Spanisch-Guinea *Ascalaphiden.*

Stitz, 2666; *Palpares* spp. n.

Diptera.

Alexander, 18; *Tipulidae* 2 spp. n.

Austen, 75, 76, 77, 78; *Tabanidae* spp. n.—Austen, 79; E. Africa *Stygeromyia* sp. n.—Austen, 80; *Ceratopoginae* spp. n.—Austen, 81; *Tabanidae* 11 spp. n.—Austen, 82; *Hippobosca* sp. n.

Becker, 155; *Chloropidae*, Monographie gen. et spp. n.

Bezzi, 220; *Syrphidae* spp. n.—

Bezzi, 223; *Bombyliidae* spp. n. gen. n.—Bezzi, 225; *Museidae Tachinidae* 8 spp. n.

Carter, 489; *Tabanus* 3 spp. n.

Edwards, 806; *Kelloggina* sp. n.—

Edwards, 808; *Culicidae* revision, spp. n.

Enderlein, 838; *Sciarinae* gen. n.—

Enderlein, 853; spp. n. *Phoridae.*—Enderlein, 863; Transvaal *Limonia* sp. n.—Enderlein; *Loxoneurinen* und *Ortalininen.*—Enderlein, 867; *Psilocephala* sp. n. Transvaal.

Gedoelst, 1027; *Oestridae* 2 spp. n.

Grünberg, 1144; *Glossina* sp. n.

Hendel, 1220; 2 spp. n., *Trigonometopus* and *Meracanthomyia.*

Kieffer, 1506; *Cecidomyiidae* 2 genn. n.

Kröber, 1577; *Therevidae* spp. n.

Malloch, 1749; *Phoridae* sp. n.

Meunier, 1822; Zanzibar copal *Chironomus* spp. n.—Meunier, 1824; *Chironomidae* Copal de Zanzibar et de Madagascar.

Neave, 1937; blood-sucking, annotated list.

Newstead, 1953; *Glossina* sp. n.—

Newstead, 1954; *Phlebotomus* 2 spp. n.

Pittaluga, 2144; *Oecacta* sp. n.

Rodhain & Bequaert, 2330; *Oestridae* 2 spp. n.

Roubaud, 2370; *Stomoxys*.

Simpson, 2599; Nigeria, blood-sucking *Diptera.*

Speiser, 2637; *Chrysops* sp. n.

Surcouf, 2733; *Tabanides* de la Sangha.

Theobald, 2759; *Culicidae* spp. n.

Ziemann, 3251; Verbreitung der blutsaugenden Tiere in Kamerun.

Aphaniptera.

Watertson, 2976; *Ctenophthalmus* sp. n.

Hemiptera.

Aulmann, 65; *Psylliden* spp. n.—Aulmann, 66; *Chlorita* n. sp.

Bergroth, 179; 9 spp. n.—Bergroth, 180; *Coreidae* spp. n.—Bergroth, 181; *Tingitidae* 2 spp. n.—Bergroth, 185; *Cenaesus* spp. n. Guinea.

Brain, 309; Cape Town, *Pseudococcus* spp. n.

Breddie, 319; *Henicocephalus* sp. n., *Reduviidae* gen. n.

Distant, 724; *Cicadidae* spp. n.—Distant, 725; 6 spp. n. *Pentatomidae* and *Reduviidae.*—Distant, 727; *Bathycoelia* 2 spp. n.—Distant, 728; *Liberia Platycleura* sp. n.

Horvath, 1299; *Tingitidae* 2 spp. n., gen. n.

Jacobi, 1370; *Homoptera* spp. n., genn. n.

Jeannel, 1388; Réduvide troglophile nouveau de l'Afrique orientale.—Jean-
nel, 1389; Nouveau *Macrospogus*,
Mozambique.

Jordan, 1428; *Polyetenidae* gen. n.

Jordan & Rothschild, 1441; 1 gen. n.
Clinocoridae.

Lallemand, 1618; *Cercopidae* spp. n.

Melichar, 1808; *Delphacinarum* n.g.
n. sp.

Montandon, 1869; *Macrocoris* spp. n.

Montandon, 1870; *Laccotrephes* 2
spp. n.

Morstatt, 1886; *Ploiariola* sp. n.

Newstead, 1957; African Coccidae
spp. n.

Reuter, 2286; Fernando Po *Redu-
violus* sp. n.

Rothschild, 2352; gen. n. *Cimicidae*.

Schmidt, 2454; *Falgoridae* spp. n.—
Schmidt, 2455; Zwei neue Tettigo-
metriden-Gattungen.—Schmidt, 2457;
Fulgoridae spp. n. genn. n.—Schmidt,
2459; *Cercopidae* spp. n.

Schouteden, 2478; *Coreidae* spp. n.—
Schouteden, 2479; *Antestia* 2 spp.
n.—Schouteden, 2483; *Coreidae* spp. n.
—Schouteden, 2486; spp. n.

Schumacher, 2515; Neue Gattung
der Graphosominen.—Schumacher,
2516; Kamerungebirge spp. n.—Schu-
macher, 2523; Ledrinen 2 genn. n.
5 spp. n.—Schumacher, 2529; *Lacetas*
spp. n.

Spooner, 2638; *Delphacidae* spp. n.

Vayssière, 2867; Deux nouveaux de
l'Afrique occidentale.

Elliptoptera (= *Anoplura*).

Harms, 480; *Haematopinus* sp. n.

Thysanoptera.

Karny, 1455; 2 spp. n.—Karny,
1454; Tubuliferen.

Karny, 1465; gen. n.

Trybom, 2809; Natal und Zululand,
Verzeichnis, genn. and spp. n.—
Trybom, 2810; Britt. Ostafrika 1 gen. n.
sp. n.

Psocoptera.

Enderlein, 859; gen. n.

Lipoptera (= *Mallophaga*).

Watertson, 2974; *Mackayia* sp. n.

Isoptera.

Holmgren, 1279; spp. and genn. n.

Silvestri, 2584 & 2586; spp. n.

Sjöstedt, 2603; Afrikanische Termiten 9 spp. n.

Wasmann, 2967; *Mirotermes* sp. n.

Wasmann und Werner, 2969; Ägyptischen Sudan und Nord-Uganda Termiten und Embidaria.

Embioptera.

Enderlein, 837; spp. n.

Plecoptera.

Klapálek, 1525; *Plecoptera*.

Ephemeroptera.

Eaton, 799; *Oligoneuria* sp. n.

Navás, 1932; gen. n.

Paraneuroptera.

Martin, 1775; Sikasso 4 spp. n.—
Martin, 1776; Gomphines spp. n.

Ris, 2314; spp. n.—Ris, 2317;
Ägyptischen Sudan und Nord-Uganda
1 sp. n.

Orthoptera.

Bolivar, 260; Congo 50 spp. n.

Burr, 441 & 446; *Dermaptera*.—
Burr, 449; *Blandex* n. gen.

Giglio-Tos 1051; *Mantidae* spp. n.—
Giglio-Tos, 1053; Specie nuove di
Fasmidi Nuova Guinea.

Griffini, 1119; *Eremus* sp. n.—
Griffini, 1123; Del K. K. Naturhist
Hofmuseum di Vienna, *Gryllacridi*
2 spp. n.

Rehn, 2242; African *Mantidae* and
Phasmidae spp. n.—Rehn, 2243 African
Eumastacinae 2 spp. n.—Rehn, 2245;
Mantidae and *Phasmidae* spp. n.

Shelford, 2572; *Blattidae*.

Sjöstedt, 2604; Kamerungebirges
1 gen. n. 4 spp. n. Sjöstedt, 2605;
Brit. Ostafrika genn. n. spp. n.

Werner, 2998; Mantodeenfauna Nor-
dostafrikas.

Collembola.

Börner, 249; Collembolen, *Dicranocentrus* sp. n.

Carpenter, 484; Nigeria *Isotoma* sp. n.

Madagascar and Mascarene Islands.

Coleoptera.

Arrow, 54; Mauritius *Phytalus* sp. n.—Arrow, 55; *Hexodon* 3 spp. n.

Boppe, 273; *Closterus* sp. n.—Boppe, 274; Genre nouveau de Cérambycides.

Borchmann, 276; *Lagriiden*, *Alleculiden* und *Meloiden* spp. n.

Chatanay, 520; Asidide nouveau.—Chatanay, 523; Nouveaux Asidides.

Fleutiaux, 942; Comores *Élateridae* spp. n.

Lamberton, 1623; Genre curieux.

Moser, 1892; *Pygora* sp. n.

Ohaus, 1985; *Adoretini* spp. n.

Scott, 2537; Seychelles, *Adephaga* & *Lamellicornia*.

Sicard, ; Coccinellides spp. n.—Sicard, Seychelles *Coccinellidae*.

Théry, 2765; *Buprestidae* spp. n.

Vuillet, 2922; *Olivina* sp. n.

Hymenoptera.

Bordage, 979; Notes biologiques recueillies à l'île de la Réunion.

Cockerell, ; Seychelles spp. n.

Emery, 827; *Myrmecinae* gen. n.

Enderlein, 839; gen. n. *Doryctinae*.—Enderlein, 840; *Braconidae* gen. n.

Forel, ; Seychelles spp. n.

Kieffer, ; Seychelles *Proctotrupoidea* gen. and spp. n.

Kohl, 1550; *Passaloecus* sp. n.

Meade-Waldo, 1798; Seychelles *Diptera*.

Morley, 1883; Seychelles *Ichneumonidae* spp. n.

Morley, 1884; *Henicospilus*, sp. n.

Roman, 2341; Madagascar *Pimpla* and *Ipobracon* n. sp.

Santschi, 2411; *Formicidae* spp. n.

Lepidoptera.

Druce, 765; *Achaea* sp. n.

Fryer, 1001; Seychelles and Aldabra spp. n.

Hampson, 1167; Seychelles *Marsmia* sp. n., Madag. *Bocchoris* sp. n.

Joannis, 1399; *Catocolinae* gen. n.

Le Cerf, 1650; *Sesia* sp. n.

Meyrick, 1839; spp. n. genn. n.

Prout, 2181; *Gelasma* sp. n.

Neuroptera.

Navás, 1915; *Sogra* spp. n.—Navás, 1917; *Leucochrysa* and *Chrysopa* spp. n.

Diptera.

Austen, 75; Madagascar, Rodriguez, Astove I., *Tabanidae* spp. n.

Collin, 581; *Limosina* sp. n. : 582; *Phoridae* spp. n.

Edwards, 813; Seychelles *Tipulidae*.

Enderlein, 838; Seychelles *Mycetophilidae* spp. n.—Enderlein, 846; Seychelles *Sciaridae* spp. n.—Enderlein, 848; *Campylocera* sp. n.—Enderlein, 861; Seychelles gen. n. *Scatopsidae*.—Enderlein, 863; *Tipulidae* sp. n.—Enderlein, 864; *Sule* sp. n.

Hendel, 1220; Seychelles and Madagascar *Acalyptratae* spp. n.

Kertész, 1492; Seychelles *Stratiomyiidae* genn. n. 2 spp. n.

Lamb, 1620; Seychelles *Acalyptratae*.

Meunier, 1822; copal, *Chironomus* and *Ceratopogon* spp. n.

Theobald, 2764; Seychelles *Culicidae* spp. n.

Hemiptera.

Bergroth, 180; spp. n. *Coreidae* and *Neididae*.—Bergroth, 185; Comoro *Odontopus* sp. n.

Distant, 724; gen. n. *Cicadidae*.—Distant, 729; Seychelles *Yanga* sp. n.

Lallemand, 1618; Madagascar and Mahé *Cercopidae* spp. n.

Schouteden, 2480; *Amberiana* sp. n.

Psocoptera.

Enderlein, 859; Seychelles and Madag. gen. n.

Paraneuroptera.

Ris, 2314; spp. n.

Orthoptera.

Bolivar, 261; Seychelles spp. n.

Burr, 441; *Prolabia* sp. n.—Burr, 448; *Anisolabis* sp. n. Comoren.

Giglio-Tos, 1051; *Tarachomantis* sp. n., Comoro *Polyspilota* sp. n.

Griffini, 1120; *Spizaphilus* sp. n.—Griffini, 1122; *Gryllacris*.—Griffini, 1126; *Carcinopsis* sp. n.

Shelford, 2571; Madagascar *Eutheganopteryx*, *Heminauphoeta* spp. n.

Asia, Tropical & Eastern,

Including Japan, Biluchistan, Afghanistan.

For West and Central Asia *vide* Palaearctic (*b*); for North Asia *vide* Palaearctic (*c*).

Insecta, collectively.

Annandale, 44; Bengal.

Buttel-Reepen, 461; Reisebrief aus Ceylon's Bergen.

Coleoptera.

Arrow, 53; Sikkim *Anomala* 11 spp. n.—Arrow, 56; Burma *Anomala* spp. n.

Bickhardt, 227; *Histeriden* Formosa.

Blair, 240; India etc. *Pyrochroidae* spp. n.

Borchmann, 278; *Lagriidae*, *Alleculidae*, *Cantharidae*, spp. n. Formosa.

Boucomont, 292; Genre nouveau et espèces nouvelles de *Coprophages*, Yunnan.

Dupuis, 780; Formosa *Carabidae* spp. n.

Eggers, 819; India *Hylastes* sp. n.

Fleutiaux, 941; India *Dicladus* sp. n.—Fleutiaux, 944; Rangoon *Scopulifer*.

Fowler, 968; India, *Cicindelidae*, *Paussidae* and *Rhysodidae*.

Gestro, 1037; India *Hispidae* spp. n.—Gestro, 1041; India and Formosa *Ichthyurus* spp. n.

Grouvelle, 1138; Annam and Formosa *Psammoecus* spp.—Grouvelle, 1139; *Aphanocephalus* spp. n.

Hauser, 1189; *Coptolabrus* sp. n. China.

Heikertinger, 1202; *Mantura* sp. n. Japan.

Horn, 1293; Formosa *Cicindelinae*.

Houlbert, 1317; Yunnan *Lucanide* genre nouveau.

Jordan, 1433; Assam and Burma *Zygaenodes* 2 spp. n.—Jordan, 1435; India *Anthribidae* spp. n.—Jordan, 1436; Formosa *Anthribidae* spp. n.

Kerremans, 1481; Formosa *Buprestiden*, spp. n.

Kožančikov, 1562; *Aphodius* sp. n.

Lameere, 1625; China *Prionus* spp. n.

Lesne, 1678; Psoien indien.

Lewis, 1682; Burma *Hololepta* sp. n.

Möllenkamp, 1860; Formosa *Lucanidae*.—Möllenkamp, 1861; India *Neolucanus* sp. n.

Moser, 1890; India and Tonkin *Hopliiden* spp. n.—Moser, 1889; *Holotrichia* spp. n.

Ohaus, 1985; *Adoretini* spp. n.

Olivier, 1996; Formosa *Lampyridae* spp. n.—Olivier, 2004; *Lampyrides* de l'Indo-Chine.

Petri, 2079; *Gasteroclisus* spp. n.

Pic, 2119; Longicornes de Chine.—Pic, 2104; *Pyrochroa* de Malacca.

Raffray, 2222; Formosa *Pselaphidae* spp. n.

Roeschke, 2332; Formosa *Carabus* sp. n.

Sampson, 2404; Ceylon, Burma, Singapore, 3 spp. n., *Xyleborus* and *Crossotarsus*.

Schenkling, 2434; Formosa *Cleridae* spp. n.

Schilder, Ent. Bl. 8 p. 96; *Cicindelinenfauna* des chinesis. u. japan.

Schmidt, 2451; *Aphodiinae*, *Orphninae* und *Hybosorinae*, spp. n.

Schönfelt, Deutsche ent. Nationalbild. 2 pp. 189 & 190; Formosa *Brenthidae*.

Sicard, 2575; Formosa *Coelophora* sp. n.

Strohmeyer, 2711; Formosa *Ipidae* 3 spp. n.

Vuillet, 2919; Indo-Chine *Euschizomerus* sp. n.

Wasmann, 2963; Formosa *Paussidae* 2 spp. n.—Wasmann, 2967; India *Thorictus* sp. n., *Dinusa* sp. n.

Weise, 2989; Chrysomeliden.

Wellman, 2996; Japan, Formosa, Tibet, *Lyttidae* spp. n.

Hymenoptera.

Cameron, 474; Hongkong *Anomalon* sp. n.

Cockerell, 556; India *Nomia* sp. n.—Cockerell, 566; Formosa *Nomia* spp. n.

Crawford, 615; *Chalcididae* and *Proctotrupidae*, spp. n.

Enderlein, 839; *Spathiinae* spp. n.—Enderlein, 841; Ceylon *Braconiden* spp. n.—Enderlein, 843; *Chalcididen* Ceylons.—Enderlein, 844; Formosa *Braconidae*, *Proctotrupidae* and *Evaniiidae*.—Enderlein, 845; Ceylon 2 spp. n., *Pseudofoenus* and *Stephanus*.—Enderlein, 855; India *Paniscus* sp. n., Formosa gen. n.

Forel, 949; Japan *Camponotus* sp. n.—Forel, 955; Formosa *Formicidae* spp. n.—Forel, 960; India genn. n. & spp. n. *Formicidae*.—Forel, 961; India etc. neue Ameisenformen.

Hedicke, 1192; Formosa *Gynipidae*.

Kertész, 1489; China *Ptilona* sp. n.

Krieger, 1573; Hinterindien *Pristomerus* spp. n.

Maidl, 1745; *Xylocopa* spp. n. India and Annam.

Meade-Waldo, 1797; India *Megachile* sp. n.

Mocsáry, 1857; Formosa *Chrysis* spp. n.—Mocsáry, 1858; *Chrysis* spp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Paiva, 2048; Abor Expedition.

Perkins, 2062; *Chalcidae* spp. n.—Perkins, 2063; *Dryinidae* spp. n.

China.—Perkins, 2065; China *Nesoprosopis* sp. n., *Megachile*.

Rohwer, 2338; *Tenthredinidae* spp. n.

Strand, 2680; *Evania*, *Iphiaulax*, spp. n.

Szabó, 2749; Singapore *Epitritus* sp. n.

Turner, 2827; Ceylon *Stizus* sp. n.—

Turner, 2830; *Fossoria* spp. n.—

Turner, 2832; The genus *Cerceris* monograph British India.

Viereck, 2881; India *Braconidae* and *Ichneumonidae* spp. n.—Viereck, 2882; *Ichneumonidae* and *Braconidae* spp. n.—Viereck, 2883; Japan *Parasitica* spp. n.

Zavattari, 3242; Kashmir *Odynerus* sp. n.

Lepidoptera.

Dekhi Philipe, 675; India *Lethe kansa* and *Dophla patula*.

Evans, 881; List of Indian butterflies.—Evans, 882; India *Rhopalocera*.

Fernández, 925; Hunan brief list.

Fruhstorfer, 990; *Lycaenidae*, *Yasoda* and *Suasa*, spp. n.—Fruhstorfer, 998; *Nymphalidae* subsp. n.

Green, 1112; Ceylon butterflies.

Hampson, 1167; *Pyraustinae* spp. n.—Hampson, 1170; The moths of India, spp. n.—Hampson, 1169; *Noctuidae* spp. n.

Hannington, 1176; Distribution of *Lethe kansa* and *Dophla patula*.

Joannis, 1397; Trois nouvelles espèces de hétérocères Cochinchine.—Joannis, 1399; Tonkin *Enmonodia* sp. n.

Jordan, 1426; *Agaristidae* spp. n.

Le Cerf, 1650; Tonkin *Aschistophleps* sp. n.

Meyrick, E., 1832; India *Microlepidoptera* many spp. n.—Meyrick, 1835; India and Ceylon *Gracilariidae* spp. n.—Meyrick, 1837; India *Nemotois* spp. n.—Meyrick, 1839; spp. n., genn. n.

Prout, 2181; India etc., *Hemithinae* spp. n.

Rothschild, 2362; *Lithosianae* spp. n.

Rothschild & Jordan, 2364; Malay Penins. *Marumba* sp. n.

Swinhoe, 2748; India etc. *Lycaenidae* and *Hesperiidae* spp. n.

Warren, 2958; India, Japan, etc., *Noctuidae* spp. n.

Wileman, 3119; Formosa *Geometridae* spp. n.—Wileman, 3200; Formosa *Noctuidae* spp. n.—Wileman, 3201; Formosa *Geometridae* spp. n.

Wileman, 3202; Formosa 6 spp. n., *Phalera*, *Trachea* and *Geometridae*.

Neuroptera.

Nagano, 1913; Japan *Lymantria* sp. n., *Epicopeia* sp. n.

Nakahara, 1914; *Climaciella* sp. n.

Navás, 1915; India, China, etc., spp. n.—Navás, 1916; spp. n., gen.—Navás, 1917; *Chrysopidae* and *Hemerobiidae* spp. n.—Navás, 1928; Baluchistan *Palpares* sp. n., Burma *Dimares* and *Nesoleon* sp. n.—Navás, 1929; Formosa gen. n., *Piu-fa* sp. n., *Tshifu* gen. & sp. n. *Myrmeleonidarum*.

Petersen, 2072; Formosa *Panorpa*, *Micromus*, 2 n. spp.—Petersen, 2073; Ceylon *Macronemurus* sp. n.

Diptera.

Alcock, 12; Malaya *Anopheles* sp. n.

Annandale, 45; *Phoridae* associated with ants.

Becker, 155; *Chloropidae*, Monographie, gen. & spp. n.

Bezzi, 219; *Rhagionidae* et *Empididae* Formosa spp. n.

Böttcher, 254; Formosa *Sarcophaga* spp. n.

Brunetti, 422; *Nematocera* general work.—Brunetti, 423; oriental *Culicidae*.—Brunetti, 424; *Aphiochaeta* sp. n.—Brunetti, 425; India many spp. n.—Brunetti, 427; *Simulium* Ceylon sp. n.

Christophers, 541; Andamans *Culicidae*.

Daniels, 660; Malay States *Culicidae* 2 spp. n.

Davys, 671; *Anophelines* Quetta.

Enderlein, 838; Japan *Sciara* sp. n.—Enderlein, 856; *Ephydriden* nov. gen.—Enderlein, 863; Formosa *Tipu-*

lidae spp. n.—Enderlein, 865; *Ortalinen* und *Loxoneurinen*.—Enderlein, 866; Formosa *Dolichopidae* spp. n.

Fry, 1000; *Anophelines* of Chota Nagpur.

Hendel, 1221; Formosa *Dacus* spp. n.

Hendel, 1220; Indien and Formosa, *Acalyptratae* 3 spp. n.

Kertész, 1488; *Dorylidae* spp. n. Formosa.

Kieffer, 1508; Formosa *Chironomidae* spp. n.—Kieffer, 1509; Ceylan nouveaux *Chironomides*.—Kieffer, 1510; *Cecidomyies* de Ceylan.

Kröber, 1577; Formosa *Therevidae*.—Kröber, 1578; *Thereviden* der indo-australischen Region.—Kröber, 1582; Formosa *Thereviden*, *Omphraliden*.

Leicester, 1662; Malay States *Culicidae* many spp. & genn. n.

Lichtwardt, 1684; Formosa *Nycteriomyia* spp. n.

Paiva, 2047; Calcutta *Culicidae*.

Patton & Cragg, 2045; India *Philaeatomyia* sp. n.

Riedel, 2306; Formosa *Nematocera* polyneura.

Schmitz, 2466; Bengalen *Chonocephalus* nov. sp.

Stanton, 2645; Malaya *Anopheles*.

Hemiptera.

Breddie, 320; spp. n., *Pentatomidae* and *Homocercus*.—Breddie, 322; India *Indra* sp. n.

Cholodkovskij, 531; Himalaya, *Pemphigidae* spp. n.

Crawford, 613; India *Psyllidae* spp. n.

Distant, 723; *Cicadidae* and *Fulgoridae* spp. n., genr. n.—Distant, 724; India *Cicadidae* and *Fulgoridae* spp. n.—Distant, 726; India etc., spp. n., *Cicadidae*, *Jassidae*.—Distant, 727; India gen. n. near *Piezodorus*, *Jassidae* spp. n.—Distant, 729; Tonkin *Cosmopsaltria* sp. n.

Green, 1107; India *Margarodes* sp. n.

Horváth, 1302; Japan etc., *Stephanitis* spp. n.—Horváth, 1305; Tonkin *Pocilocoris* sp. n.

Jordan & Rothschild, 1441; *Cacodmus* sp. n.

Lallemand, 1618; India *Leptataspis* sp. n.

Matsumura, 1792; Cicadinen Japans.—Matsumura, 1793; Acocephalinen und Bythoscopinen Japan.

Montandon, 1869; Annam *Gestroiella* sp. n.

Poppus, 2153; Malacca *Kosmimiris* sp. n.—Poppus, 2154; Formosa *Lygus* sp. n.—Poppus, 2164; India and Ceylon *Bryocorinae* spp. n.

Reuter & Poppus, 2288; *Teratomyziden* spp. n.

Rothschild, 2354; India *Clinocoris* sp. n.

Schmidt, 2459; *Leptataspis* sp. n. Malacca.

Schumacher, 2522; *Cyphostethus* sp. n. China.

Thysanoptera.

Bagnall, 93; India *Panurothrips* sp. n.—Bagnall, 97; India gen. n.

Isoptera.

Bugnion, 436; Ceylan *Entermes* n. sp.

Holmgren, 1277; India sp. n.—Holmgren, 1279; spp. & genn. n.

Embiopoda.

Enderlein, 837; spp. n.

Psocoptera.

Enderlein, 851; Orientalische.

Plecoptera.

Klapálek, 1522.—Klapálek, 1524; Formosa gen. n.—Klapálek, 1529; *Kamimuria* 12 spp. n. China, Japan.

Ephemeroptera.

Ulmer, 2840; Formosa.

Paraneuroptera.

Ris, 2314; spp. n.—Ris, 2316; Formosa, Südchina, Tonkin, spp. n.

Orthoptera.

Burr, 441; Formosa *Pyge* sp. n.—Burr, 448; *Anechura* sp. n. Nordinien.—Burr, 449; *Chelisoches* sp. n. Formosa.

Hancock, 1171; *Tetriginae* spp. n.

Thysanura and *Collembola*.

Imms, 1355; India etc., 27 spp. n., gen. n.

Silvestri, 2589; *Machilidarum* species novae.

Asiatic Archipelago.

Java to New Guinea, incl. Philippines.

Insecta, collectively.

Mjöberg, 1855; Mallophagen und Amopluren Java.

Moulton, 1896; Borneo trip, *Pentatomidae* 2 spp. n.

Coleoptera.

Bernhauer, 211; Philippinen *Staphyliniden* spp. n.

Bickhardt, 230; *Histeridae* spp. n.

Blair, 240; *Pyrochroidae* spp. n.

Clavareau, 543; N. Guinea *Aesernia* 2 spp. n.

Felsche, 904; Philippinen *Lucaniden* spp. n.

Fleutiaux, 941; *Eucnemidae* spp. n.—Fleutiaux, 944; *Eucnemidae* spp. n.

Gahan Proc. ent. Soc. London 1911 p. lxxix; Borneo *Daphisia* sp. n.

Gebien, 1024; *Tenebrionidae* spp. n.

Gestro, 1039; Sumatra *Ichthyurus* sp. n.

Grouvelle, 1138; Java *Psammoecus* spp. n.—Grouvelle, 1139; *Aphanoccephalus* spp. n.

Hagedorn, 1159; New Guinea gen. n. *Scolytidae*.

Heller, 1209; Lamollicornier Deutsch-Neuguinea.—Heller, 1210; N. Guinea, *Cerambycidae* genn. & spp. n.—Heller, 1212; Celebes 2 spp. n., *Chrysochroa* and *Celebia*.—Heller, 1213; Luzon *Discolomidae* gen. n.—Heller, 1214; Philippinische Rüsselkäfer.—Heller, 1215; *Chalcocrates* sp. n. N. Guinea.

Horn, etc., 1295; New Guinea spp. n.

Janson, 1384; Borneo *Cetoniidae* 5 spp. n.

Jordan, 1438; Neue Anthribiden.—Jordan, 1433; *Anthribidae* 4 spp. n.

Kerremans, 1484; Borneo *Buprestidae* spp. n.

Lewis, 1682; *Histeridae* 3 spp. n. Java, Batchian and New Guinea.

Möllenkamp, 1861; Borneo *Aegus* sp. n.—Möllenkamp, 1862; *Lucanidae*.

Moser, 1889; *Holotrichia* spp. n.—Moser, 1890; *Hopliiden* spp. n.—Moser, 1892; *Cetoniidae* spp. n.

Moulton, 1900; Bornean *Buprestidae*.

Ohaus, 1985; Djampea *Trigonostomum* sp. n.—Ohaus, 1992; *Ruteliden*.

Petri, 2079; Sumatra *Gasteroclisus* sp. n.

Pic, 2103; *Pyrochroides* de Java et de Sumatra.—Pic, 2107; *Idgia* sp. n. Java.

Pierce, 2135; Philippines gen. n. *Curculionidae*.

Prell, 2174; *Dynastini* spp. n.

Raffray, 2221; Java *Batrisocenus* 3 n. spp.

Ritsema, 2318; Borneo *Cryptoderma* sp. n.—Ritsema, 2319; *Euchitonia* sp. n. Sumatra.—Ritsema, 2320; Sumatra *Aulacochilus* sp. n.—Ritsema, 2321; *Metopodontus* sp. n. Sumatra.

Sampson, 2404; Borneo *Crossotarsus* sp. n.

Sicard, 2578; Philippines *Caria* sp. n.

Spaeth, 2633; Borneo *Cassidae* spp. n., gen. n.

Vuillet, 2920; *Dasyllinda* sp. n.

Wagner, 2937; sp. n. *Apion* Luzon.

Wasmann, 2962; Paussiden, etc., 3 spp. n. Java.

Weise, 2989; *Chrysomelidae* spp. n.

Hymenoptera.

Cameron, 479; Two new *Ichneumonidae* Aru.—Cameron, 480; Sarawak spp. n.

Crawford, 615; Philippine Is. *Sympiesis* sp. n.

Enderlein, 839; *Spathiinae* spp. n.—Enderlein, 840; Sumatra *Eubadizon* sp. n.—Enderlein, 841; Sumatra *Bracconidae* spp. n.—Enderlein, 855; *Pani-*

scinae gen. n. spp. n.—Enderlein, 859; *Ophioninae* gen. n. Sumatra.

Enslin, 872; *Tenthredinoidea* Java.

Forel, 958; Ameisen Java.—Forel, 960; Sumatra genn. n. spp. n. *Formicidae*.—Forel, 961; neue Ameisenformen Sumatra etc.

Friese, 983; Bienenfauna von Neu-Guinea und Oceanien 2 spp. n.

Krieger, 1573; *Pristomerus* spp. n.

Maidl, 1745; Philippines 4 spp. n.

Meade-Waldo, 1796; New Guinea, *Scaria* spp. n.

Moscáry, 1857; Sumbawa *Chrysis* sp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Perkins, 2061; Amboina, *Abispa* and *Odynerus*, sp. n., N. Guinea, *Palaeorhiza* sp. n.—Perkins, 2063; Java *Dryinidae* spp. n.

Rohwer, 2338; *Tenthredinidae* spp. n.

Stitz, 2667; Ameisen Ceram und Neu-Guinea.

Strand, 2680; *Evania*, *Iphiaulax*, spp. n.

Turner, 2826; New Guinea spp. n. *Fossoria*.—Turner, 2829; Amboina *Dasyproctus* sp. n.—Turner, 2831; New Guinea *Thynnidae* spp. n.

Viehmeyer, 2878; Ameisen Deutsch-Neuguinea.

Lepidoptera.

Chapman, 512; Borneo *Notarthrinus* sp. n.

Courvoisier, 609; Javanische *Lycacniden*.

Druce, 761; *Hesperiidae* 4 spp. n., gen. n.

Eecke, 814; *Thestias* sp. n.

Friehstorfer, 991; Sula Mangoli *Hypolimnas* sp. n.

Fruhstorfer, 998; *Nymphalidae* sub-spp. n.

Hampson, 1167; *Pyraustinae* spp. n.—Hampson, 1169; *Noctuidae* spp. n.

Jordan, 1426; *Agaristidae* spp. n.—Jordan, 1429; New Guinea *Delias* spp. n.—Jordan, 1430; 3 spp. n., *Abisara* and *Dicallaneura*.—Jordan,

1431; New Guinea *Eubordeta* 4 spp. n.
—Jordan, 1437; *Zygaenidae* spp. n.

Kendrick, 1477; New Guinea *Pyrallidae* spp. n.

Klunder van Gigen, 1537; *Neptis* sp. n.—Klunder van Gijen, 1539; *Microlepidoptera* von Java und Kei-Inseln 9 spp. n.

Martin, 1771; *Papilio* sp. n. Celebes.
—Martin, 1773; *Euploea* Celebes.—
Martin, 1774; *Delias* 2 spp. n. Celebes.

Meyrick, 1837; Celebes *Nemotois* sp. n.—Meyrick, 1839; spp. n. genn. n.

Moulton, 1898; Borneo *Lycaenidae* revision.—Moulton, 1899; Borneo *Delias* sp. n.

Prout, 2181; *Hemitheinae* spp. n.

Rebel, 2239; *Ogyris* sp. n. Neu-Guinea.

Rothschild, 2359; Borneo spp. n. *Aegeriidae* and *Syntomidae*.—Rothschild, 2362; *Lithosianae* spp. n.

Rothschild & Jordan, 2364; New Guinea *Macroglossum* sp. n.

Strand, 2675; New Guinea *Charagia* sp. n.

Warren, 2958; *Noctuidae* spp. n.—
Warren, 2959; New Guinea *Geometridae* spp. n.

Neuroptera.

Enderlein, 852; *Panorpata* Java 2 spp. n.

Navás, 1915; spp. n.—Navás, 1917; N. Guinea *Chrysocerca* sp. n.—Navás, 1928; N. Guinea *Myrmeleon* sp. n.

Diptera.

Enderlein, 838; *Mycetophilidae* spp. n.—Enderlein, 863; *Tipuliden* spp. n.—Enderlein, 865; *Ortalin* und *Loxoneurinen*.—Enderlein, 866; *Dolichopodiden* *Psilopodini* spp. n.

Kieffer & Leeuwen, 1512; Java *Cecidomyiidae* spp. n.

Kröber, 1578; *Therevidae* genn. & spp. n.

Malloch, 1749; *Phoridae* spp. n.—
Malloch, 1750; Philippines *Limosina* sp. n.

Meijere, 1800; *Puliciphora* neue Arten.

Muir, 1909; *Ascodipteron* sp. n.

Hemiptera.

Ashton, 62; *Maua* sp. n.

Aulmann, 67; *Psylliden* Neu-Guinea, gen. n.

Bergroth, 180; *Coreidae* spp. n.

Bredden, 320; spp. n., *Pentatomidae* and *Oncopeltus*.—Bredden, 322; Borneo *Indra* sp. n.—Bredden, 327; Ceylon *Reduviidae* spp. n.

Distant, 726; Borneo *Haranga* sp. n.—Distant, 729; *Cicadinae* 4 spp. n.—Distant, 730; New Guinea 10 spp. n., genn. n.

Goot, 1088; Zwei neue javanische Aphiden, Verzeichnis der bekannten indischen Blattläuse.

Green, 1109; *Coccidae* Java 2 spp. n.

Horváth, 1300; Java 4 spp. n.—
Horváth, 1302; Java, N. Guinea, *Stephanitis* spp. n.—Horváth, 1303; N. Guinea *Caridophthalmus* sp. n.

Lallemand, 1618; New Guinea *Cercopidae* 2 spp. n.

Montandon, 1869; *Naucoridae* 2 spp. n., gen. n.

Moulton, 1897; Borneo list of *Cicadidae* spp. n.

Poppius, 2153; *Capsidae* genn. n.—
Poppius, 2156; *Araspus* 4 spp. n. Neu Guinea.—Poppius, 2164; *Bryocorinen* spp. n.

Reuter, 2286; Luzon *Campylomma* sp. n.

Schmidt, 2456; *Maua* sp. n. Sumatra.—Schmidt, 2457; *Bythopsyrna* sp. n. Nias.—Schmidt, 2458; Sumba *Scieroptera* sp. n.—Schmidt, 2459; Sumatra *Cercopidae* gen. n.

Thysanoptera.

Bagnall, 93; Philippines *Mecynothrips* sp. n.

Karny, 1461; Gallenbewohnende Java.—Karny, 1462; Zwei neue javanische Genera.

Embioptera.

Silvestri, 2588; *Oligotoma* sp. n.

Isoptera.

Holmgren, 1279; spp. & genn. n.

Plecoptera.

Klapálek, 1526; *Nemura* sp. n. Java.

Paraneuroptera.

Laidlaw, 1615; Borneo *Orogomphus* sp. n.—Laidlaw, 1616; Borneo spp. n.—Laidlaw, 1617; Borneo gen. n.

Ris, 2314; spp. n.—Ris, 2315; Java und Krakatau.—Ris, 2316; spp. n. Philippinen.

Orthoptera.

Burr, 447; *Dermoptera* Java and Sumatra.—Burr, 442; Java *Ariscenia* sp. n.—Burr, 449; New Guinea *Anisotabis* sp. n.

Giglio-Tos, 1051; Mantidae spp. n.—Giglio-Tos, 1052; *Pulchriphyllium* n. sp. New Guinea.—Giglio-Tos, 1054; Neu-Guinea, *Aphroptera* sp. n.

Griffini, 1119; Lombok *Gryllacris* sp. n.—Griffini, 1121; Borneo *Gryllacris* sp. n.—Griffini, 1125; *Gryllacridae* of Borneo.

Hancock, 1171; *Saussurella* spp. n.

Jacobson, 1372; *Myrmecophaga americana* Java.

Karny, 1452; genn. & spp. n. *Locustoides* Neu-Guinea.

Shelford, 2566; New Blattidae New-Guinea.—Shelford, 2570; *Prosoplecta* spp. n.

Thysanura.

Silvestri, 2589; Java gen. n. *Machilidae*.

Protura.

Berlese, 199; sp. n.

Australia and Tasmania.

Insecta, collectively.

Michaelsen, 1844; S.W. Australia.

Dodd, 743; Trip.

Coleoptera.

Blackburn, 237; *Melolonthini* spp. n.

Blair, 240; *Lemodes* 2 spp. n.

Ferguson, 920; *Amycterides*.
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Fleutiaux, 941; *Eucnemidae* 2 spp. n.

Goudie, 1090; Water-beetles, Victoria.—Goudie, 1091; North-Western Victoria *Pselaphidae*, *Paussidae*, *Scydmaenidae*.

Grouvelle, 1139; *Aphanocephalus* sp. n.

Lea, 1640; many spp. n.—Lea, 1641; *Rhytiphora* n. sp.—Lea, 1642; New.

Mjöberg, 1853; *Eucurtia* gen. & sp. n. S. Australia, termitophilous.

Moser, 1892; *Chlorobapta* sp. n.

Ohaus, 1988; *Anoplognathiden* spp. n.

d'Orchymont, 2006; *Neosternolophus* sp. n.

Pic, 2102; *Hylophilides*.

Schmidt, 2451; *Aphodius* sp. n.

Hymenoptera.

Bingham, 231; spp. n., *Cerceris*, *Gorytes*, *Odynerus*, *Rhyngchium*, *Alastor*.

Cameron, 477 & 478; New Parasitic.

Cockerell, 550; 10 spp. n. *Prosopeinae*.—Cockerell, 551, 552, 556, 567; *Apidae* spp. n.—Crawford, 615; *Podagrion* sp. n.

Forel, 961; *Rhopalothrix* sp. n.

Girault, 1065, 1066, 1067; spp. n., genn. n.—Girault, 1072; *Melittobia* Queensland sp. n.

Mocsáry, 1858; *Chrysis*; sp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Perkins, 2061; spp. n., genn. n., *Apidae* and *Fumenidae*.

Turner, 2825; *Anthobosca* sp. n.—Turner, 2829; *Fossoria* spp. n.—Turner, 2831; *Thynnidae* spp. n.—Turner, 2833; *Cerceris*.

Lepidoptera.

Hampson, 1169; *Noctuidae* spp. n.

Meyrick, 742; *Cyclotorna* spp. n.—Meyrick, 1835; *Gracilariidae* spp. n.—Meyrick, 1837; *Nemotois* 2 spp. n.—Meyrick, 1839; spp. n.

Strand, 2671; *Synemon* spp. n.

Turner, 2820; *Cirphis* sp. n.

Warren, 2958; *Noctuidae* spp. n.

Waterhouse & Lyell, 2972; New *Hesperiidae*.

Neuroptera.

Navás, 1917; *Berotha* sp. n.

Petersen, 2073; *Acanthaclisis* sp. n.

Diptera.

Austen, 75; *Pangonia* sp. n.

Hermann, 1225; *Asilidae* spp. n.

Kröber, 1579; *Therevidae* genn. & spp. n.—Kröber, 1579; *Thereviden* 2 genn. n.—Lichtwardt, 1684; *Nycterimyia* sp. n.

Malloch, 1749; *Phoridae* sp. n.

Muir, 1909; *Ascodipterion* sp. n.

Ricardo, 2299; *Asilidae* spp. n.

Summers, 2725; *Tabanidae* spp. n.

Taylor, 2756; *Culicidae* 4 spp. n.

Hemiptera.

Ashton, 57, 58, 59, 60, 61; New *Cicadidae*.

Bergroth, 187; *Pentatomidae* spp. n.

Distant, 726; *Cicadidae* 2 spp. n.

Poppius, 2164; *Bryocorinae* spp. n.

Schouteden, 2480; 2 spp. n. *Deroploa* and *Neomenistheus*.

Isoptera.

Holmgren, 1278; *Porotermes* sp. n.

Paraneuroptera.

Tillyard, 2775; *Diphlebia* life-histories spp. n.

Orthoptera.

Werner, 2999; *Mantodea* und *Phasmodea* gen. n.

North America.

Insecta, collectively.

Faunal zones, map; Canad. Ent. 44 p. 129.

Banks; At the *Ceanothus* in Virginia; Ent. News 23 p. 102-110.

Cockerell, 570; The Miocene fauna of Florissant.

Gibson, 1048; Canada, captures 1910 & 1911.

Hunter; Some notes on insect abundance in Texas in 1911, Proc. Ent. Soc. Washington 14 p. 62-65.

Hunter, Pratt, & Mitchell, 1343; Cactus insects.

Hyslop, 1346; Pacific northwest.

Lehmann, 1660.

Visher, 2902; South Dakota. A partial list of the insects collected.

Slosson; Collecting, Pennsylvania Ent. News 23 p. 171-173.

Trotter, 2808a; Galls of N. America, *Andricus* sp. n.

Coleoptera.

Angell, 43; *Necrophorus* spp. n.

Baker, 99; Bernhauer; *Staphylinidae* spp. n. beach at Laguna.

Bernhauer, 204; *Staphylinidae* spp. n.

Blatchley, 242; 4 spp. n., *Coelambus*, *Aphodius*, *Hymenorus* and *Andrimus*.—Blatchley, 243; *Dicaelus* sp. n.

Casey, 491; American *Byrrhidae*.—Casey, 493; *Longicornia* spp. n.

Davis, 667; Distribution of tiger beetles.

Dury, 786; *Symbiotes* spp. n.—Dury, 786a; *Cychrus*, New Mexico sp. n.

Fall, 891; 10 spp. n.—Fall, 892; new *Tetropium*, *Bruchides*.—Fall, 893; *Collops* spp. n.—Fall, 894; Four new myrmecophilous.

Fisher & Kirk; *Cerambycidae* from Harrisburg, with notes; Ent. News 23 p. 308-316.

Frost, 989; *Agrilus* spp. n.—Frost, Canad. Ent. 44 pp. 304-308; Maine, collecting in.

Kraus, 1563; *Lasconotus* spp. n.

Lameere, 1625; *Prionus* 2 spp. n.

Leng, 1666; Distribution of *Cicindelidae* in eastern North America.—Leng, 1667; Salt meadow beetles.—Leng; *Soronia decumana* Alabama, J. New York Ent. Soc. 20 p. 134.

Matheson, 1789; *Halipidae* spp. n.

Möllenkamp, 1861; *Platycerus* sp. n.

Nunenmacher, 1975; *Coccinellidae* spp. n.

Ohaus, 1991; *Byrsopolis* sp. n.

Olivier, 2002; *Lampyridae* spp. n.

Pierce, 2135; *Curculionidae* spp. n.

Schaeffer, 2421; *Ilister* 3 spp. n.—

Schaeffer, 2422; *Collops* spp. n.—

Schaeffer; *Coccinella undecimpunctata* Massachusetts, *Psyche* 19 p. 104.

Swaine, 2740; *Ipidae* 5 spp. n.

Wagner, 2936; *Apion* spp. n.

Walton, 2952; *Symbiotes* sp. n.

Wellman, 2996; *Lyttidae* spp. n.

Westcott, 3003; *Anatis* sp. n.

†Wickham, 3116; Fossil, Florissant.

Wickham & Wolcott, 3117; *Cleridae*.

Wolcott, 3218; *Saprinus* sp. n. and *Bruchus* sp. n.

Hymenoptera.

Banks, 109; *Cerceris* spp. n.—
Banks, 110; *Fossoria* spp. n.

Bartlett, 140; North American *Scoliinae*.

Cockerell, 556; *Epeolus* sp. n.—
Cockerell, 559; *Coelioxys* 5 spp. n.—
Cockerell, 560; *Chelynia* sp. n.—
Cockerell, 562; Canada 4 spp. n.,
Megachile and *Osmia*.—Cockerell, 574;
Eucerinae list of spp.

Crawford, 614; 2 spp. n., *Perdita*
and *Phileremulus*.—Crawford, 616;
Chalcidae spp. n.

Davidson, 663; *Bombus* spp., California.

Fernald, 924; *Chlorion* spp. n.

Fullaway, 1010; Gall-fly parasites
California, spp. n.

Gahan, 1013; Two new genera
parasitic Hymenoptera.

Girault, 1057; U.S. and Canada,
Chalcididae spp. n. etc.—Girault, 1058;
Trichaporus sp. n.—Girault, 1059;
Aphelinoidea sp. n.—Girault, 1071;
Stephanodes sp. n.—Girault, 1074;
Polynema sp. n.—Girault, Canad. Ent.
44 p. 88; *Anaphes pratensis*.

Hooker, 1286; *Ophionini* spp. n.

Leonard, 1669; Honey ants Point
Loma.

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Macgillivray, 1739; *Xyelidae* and
Lydidae spp. n.

Matheson & Crosby, 1790; *Chalcidae* gen. n.

Mitchell & Pierce, 1848; Ants
Victoria county, Texas.

Morley, 1884; *Ichneumonidae* spp. n.

Rohwer, 2334; *Chalastogastra*
Boulder county.—Rohwer, 2336; *Eumenidae*
and *Fossoria*, spp. n.—
Rohwer, 2337; *Oryssus* spp. n.—
Rohwer, 2338; *Tenthredinidae* spp.
n.—Rohwer, Canad. Ent. 44 p. 276;
Canada, *Tenthredinidae* short list.

Strickland, 2705; *Pezomachinae* spp.
n.

Trotter, 2808a; *Andricus* sp. n.

Viereck, 2881; *Braconidae* and *Ichneumonidae*
spp. n.—Viereck, 2882;
Braconidae and *Ichneumonidae* spp.
n.—Viereck, 2883; spp. n., *Ichneumonidae*
and *Braconidae*.—Wheeler,
3008; *Pseudococcus* sp. n.—Wheeler,
3009; *Myrmecocystus* sp. n.

Lepidoptera.

Barnes & McDunnough, 119; *Noctuidae*
spp. n.—Barnes & McDunnough,
120; *Noctuidae* 3 spp. n.—Barnes &
McDunnough, 122; Revision of the
Megathymidae.—Barnes & McDunnough,
123; Illustrations of rare and
typical.—Barnes & McDunnough, 124;
Fifty new species and varieties.—
Barnes & McDunnough, 125; *Alpheias*
spp. n.—Barnes & McDunnough, 127;
Givira sp. n.—Barnes & McDunnough,
128; New *Microlepidoptera*.

Braun, 312; *Nepticula* spp. n.

Busck, 451; *Microlepidoptera* spp.
n. Laguna beach.—Busck, 452; *Epicallima*
sp. n.—Busck, 454; *Epicallima*
sp. n.—Busck, 456; *Acrolophus* spp. n.

Dyar, 790; Laguna beach, *Pyralidae*
spp. n.—Dyar, 793; *Noctuidae*
3 novelties.—Dyar, 794; *Noctuidae*
2 spp. n.

Grinnell, 1129; Additions and cor-
rections to the list of southern Cali-
fornia.

Grossbeck, 1134; *Geometridae* spp. n.

Hampson, 1167; Arizona *Glyphodes*
sp. n.

Knetzler; St. Louis; Ent. News 23 p. 203-207.

Meyrick, 1839; *Heliodines* sp. n.

Newcomer, Ent. News 23 p. 81; Notes on western U.S. Lepidoptera.

Pearsall, 2052; *Geometridae* spp. n.—Pearsall, 2053; *Eupithecia* sp. n.

Perrin & Russell, 2067; Nova Scotia catalogue.

Prout, 2181; *Hemitheinae* spp. n.

Swett, 2743; *Hydriomena* 2 spp. n.

Watson & Coleman; *Iphiclides ajax* and *Eurymus interior* from the summit of Mt. Marcy; Bull. Brooklyn Ent. Soc. 8 p. 4-6.

Winn, Canad. Ent. 44 pp. 213-216; Yukon list.

Wormsbacher, 3225; Catocalen Vereinigten Staaten.

Wright, 3227; *Rhopalocera*.

Trichoptera.

Hill-Griffin, 1251; New, Oregon.

Neuroptera.

Banks, 112; *Mantispilla* spp. n.

†Cockerell, 563; *Raphidia*, Colorado Miocene.

Navás, 1918; *Malacomyza*, *Chrysopa*, *Symphrophobius*, spp. n.

Petersen, 2073; *Drepanicus* sp. n.

Diptera.

Aldrich, 15; *Ephydra* sp. n.

Alexander, 20; Fulton county *Tipulidae*.—Alexander, 23; *Brachypremna* sp. n.—Alexander, 24; *Adelphomyia* 2 spp. n.—Alexander, 26; New *Tipulidae*.

Becker, 155; *Chloropidae*, Monographie, gen. & spp. n.

Cole, 579; *Diptera* Laguna beach.

Oresson, 620; *Pipunculus* spp. n.

Doane, 733; *Tipula* spp. n.

Dyar, 791; Distribution of mosquitoes.

Felt, 908; *Diarthronomyia* sp. n. California.—Felt, 911; *Cecidiomyiidae* spp. n.—Felt, 912; *Arthrocnodax* sp. n.—Felt, 913; *Cecidiomyiidae* spp. n.—

Felt, 914; *Cecidiomyiidae* spp. n.—Felt, 915; *Itonididae* spp. n.

Hermann, 1225; *Asilidae* spp. n.

Hine, 1254; *Tabanidae* 5 spp. n.

Hooker; *Cecidomyia foliora*; Ent. News Philadelphia 23 p. 472.

Johannsen, 1404; *Mycetophilidae*.—

†Johannsen, 1407; *Mycomya* sp. n. Colorado Miocene.

Johnson, 1412; spp. n.—Johnson, 1413; notes.—Johnson, 1414; *Chrysopilus* sp. n.—Johnson, 1415; spp. n. *Mydidae* and *Asilidae*.—Johnson, 1416; *Haematopota* spp. n.

Kröber, 1581; *Thereviden*.

Malloch, 1748; *Pipunculidae* spp. n.—Malloch, 1749; *Phoridae* spp. n.—Malloch, 1750; spp. n.

Malloch & Knab, 1753; *Limosina*.

Smith, 2616; spp. n.

Townsend, 2791; *Tachinidae* spp. n.

Walton, 2951; 2 spp. n., *Agromyza* and *Miersdon*.

Welch, 2995; *Psychoda* sp. n.

Hemiptera.

Abbott, 1; gen. n. *Corixidae*.

Banks, 111; *Ploiariodes* sp. n.

Barber, 115; Distribution of Hemiptera.

†Cockerell, 558; *Fulgoridae* gen. n.

Cockerell, 561; *Phenacoccus* sp. n.

Davidson, 664; *Aphidae*, spp. n. California.

Davis, 665; *Aphididae* of Nebraska.—Davis, 666; *Cicada* sp. n.—Davis, 670; *Pseliopus* sp. n.

Essig, 879; *Aphididae* of southern California.

Gee, 1030; list, South Carolina.

Herrick, 1230; Mississippi, notes.

Horváth, 1298; Faunes hémiptérologiques de l'Europe et de l'Amérique du Nord.—Horváth, 1301; *Cimicidae*.

Montandon, 1871; *Hydrocorisae* 5 spp. n.

Olsen, 2005; Annotated list Long Island.

Patch, 2039; *Aphidac* spp. n.—
Patch, 2041; *Psyllidae* spp. n.—
Patch, 2044; *Livia* sp. n.

Phillips & Davis, 2092; *Toxoptera*
sp. n.

Reuter, 2286; 2 spp. n., *Plagio-*
gnathus and *Microphyllellus*.

Reuter & Poppius, 2288; *Termato-*
phylidae gen. n.

Sasscer, 2417; *Fiorinia*.

Torre Bueno, 2785; *Corizus* sp. n.—
Torre Bueno, Ent. News 23 pp. 316-318;
Nezara viridula.—Torre Bueno; Records
of Heteroptera from Brownsville, Texas,
T.c. p. 120-122.—Bueno, Canad. Ent. 44
pp. 209-213; Long island, long list.

Tothill, 2786; *Winthemia* sp. n.

Van Duzee, 2852; spp. n.—Van
Duzee, Ottawa Natural. 26 pp. 68-70;
Canada, trip.

Wilson, 3211; spp. n.—Wilson,
3212; *Lachnus* sp. n.

Zimmer, 3253; The *Pentatomidae*
of Nebraska.

Thysanoptera.

Hood, 1281; 2 spp. n.—Hood, 1282;
n. gen. 3 spp. n.—Hood, 1283;
spp. n.—Hood, 1284; *Phloeothripidae*
3 spp. n.—Hood, 1285; New gen. &
spp.

Jones, 1425; California and Georgia
spp. n.

Parrott; *Euthrips pyri* in New York.

Russell; Notes; Washington Proc.
Ent. Soc. 14 p. 128.

Lipoptera.

Kellogg & Mann, 1474; From Alaskan
birds.

McGregor, 1743; *Colpocephalum* sp.
n.

Paine, 2030; Mallophaga from birds
at Laguna beach.—Paine, 2031; *Hetero-*
doxus sp. n.—Paine, 2032; *Tricho-*
dectes spp. n.

Plecoptera.

Klapálek, 1522; spp. n.

Paraneuroptera.

Root, Canad. Ent. 44 p. 208; Ontario
list.

Walker, 2944; Canada list, *Coen-*
agrion sp. n.

Williamson, 3205; *Argia* n. sp.—
Williamson; Indiana *Somatochlora*;
Ent. News 23 pp. 152-155.

Wilson, 3207; Cumberland valley
Kentucky and Tennessee.

Orthoptera.

Davis, 668; *Belocephalus* 3 spp. n.
Florida.—Davis; *Dendrotettix quercus*
New Jersey; Ent. News Philadelphia
23 1912 p. 2.

Fox, 969; Two *Xiphidium* spp. n.

Rehn, 2244; Santa Rita mountains,
Arizona.—Rehn & Hebard, 2247; *Gryl-*
lidae gen. n.—Rehn & Hebard, 2248;
Southern Florida, *Atlanticus* sp. n.

Walker, Canad. Ent. 44 pp. 171 &
172; The *Blattidae* of Ontario.

Thysanura.

Silvestri, 2590; *Campodeidae* spp. n.

Central America.

Coleoptera.

Casey, 491; Panama *Byrrhidae*
gen. n.—Casey, 492; Revision, *Asidini*.
—Casey, 493; *Longicornia* spp. n.

Dupuis, 779; *Omophron* 2 spp. n.

Fleutiaux, 941; *Eucnemidae* spp. n.

Kraus, 1563; *Lasconotus* spp. n.
Mexico.

Lesne, 1677; *Lyctides nouveaux du*
Mexique.

Ohäus, 1991; *Rutelini* spp. n.

Sicard, 2575; *Harmonia*, *Exoplectra*,
spp. n.

Wagner, 2929 & 2930 *Apion* spp. n.

Wickham & Wolcott, 3117; Notes,
Cleridae.

Hymenoptera.

Bartlett, 140; Mexico *Scolia* sp. n.

Cameron, 475; Costa Rica *Megacan-*
thopus and *Odynerus*, spp. n.

Cockerell, 553; *Apidae* spp. n.—
Cockerell, 554; *Apidae* spp. n.—

Cockerell, 555; *Apidae* spp. n.—
Cockerell, 564; *Eustypira* sp. n.
Guatemala.—Cockerell, 565; *Apidae*
spp. n.—Cockerell, 572; Guatemala
Apidae spp. n.

Cockerell, W. P., 575; Guatemala
Apidae short list.

Crawford, 616; *Chalcidae* spp. n.

Enderlein, 840; Brit. Honduras
Eubadizon sp. n.—Enderlein, 655;
Mexico *Paniscus* spp. n.

Fernald, 924; *Chlorion* spp. n.

Forel, 948; Nicaragua *Eciton* sp. n.—
Forel, 950; *Myrmicinae*.—Forel, 953;
Azteca spp. n.

Hooker, 1286; *Ophionini* spp. n.

Maidl, 1745; *Xylocopa* sp. n.
Mexiko.

Mocsáry, 1858; *Chrysis* spp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Perkins, 2062; *Chalcidae* spp. n.

Rohwer, 2336; *Fossoria* spp. n.—
Rohwer, 2338; *Tenthredinidae*, Mexico
spp. n.—Rohwer, 2339; Panama,
Tenthredinidae genn. n.

Viereck, 2880; Panama gen. n.
Braconidae: 2883; *Parasitica* spp. n.

Zavattari, 3241; *Eumenidae* spp. n.

Lepidoptera.

Busck, 455; New *Microlepidoptera*
Mexico.—Busck, 457; New genera
and species of *Microlepidoptera*,
Panama.

Davis & Gibbs P. ent. Soc. London
1912 pp. xlv–xlviii; Honduras and
Guatemala *Rhopalocera* list.

Draudt, 758; *Taygetis* sp. n. Mexiko.

Dyar, 789; Mexico spp. n.—Dyar,
795; chiefly Mexico, many spp. n.

Ehrmann, 822; Honduras *Papilio*
sp. n.

Hampson, 1167; *Pyraustinae* spp. n.
—Hampson, 1169; *Noctuidae* spp. n.

Rothschild, 2361; *Syntomidae* spp. n.
—Rothschild, 2362; *Lithosianae* 2
spp. n.

Schaus, 2425 & 2426; Costa Rica
many spp. n.

Walsingham, 2950; *Tineidae* genn.
and spp. n.

Trichoptera.

Felber, 903; *Helicopsyche* Mexico.

Neuroptera.

Navás, 1915; Guatemala *Episper-*
ches sp. n.—Navás, 1928; Panama
Balaga sp. n.

Diptera.

Alexander, 16; *Tipulinae* spp. n.—
Alexander, 17; *Rhipidia* spp. n.—
Alexander, 19; *Furcomyia* spp. n.—
Alexander, 21; Costa Rica. *Mongoma*
sp. n.

Becker, 155; *Chloropidae*, Mono-
graphie, gen. et spp. nn.

Enderlein, 838; *Mycetophilidae* spp. n.
—Enderlein, 853; Costa Rica *Aphio-*
chaeta sp. n.—Enderlein, 861; Costa
Rica *Psectrosiara* sp. n.—Enderlein,
863; *Tipulidae* spp. n.—Enderlein,
866; Costa Rica *Psilopus* sp. n.

Felt, 913 & 914; *Cecidomyiidae* sp. n.

Knab, 1544; *Anisopus* spp. n.

Knab & Malloch, 1545; *Limosina*
sp. n.

Kröber, 1581; Mexico *Therevidae*
spp. n.

Malloch, 1748; Nicaragua *Pipun-*
culus sp. n.—Malloch, 1749; *Phoridae*
spp. n.—Malloch, 1751; Panama,
spp. n.—Malloch, 1752; *Pipunculus*
spp. n.

Townsend, 2787; Lower California
short annotated list.

Hemiptera.

Montandon, 1871; Mexico *Ambry-*
sus sp. n.

Schmidt, 2457; Costa Rica *Gaetulia*
sp. n.

Lipoptera.

Kellogg & Mann, 1475; Islands off
Lower California.

Embioptera.

Enderlein, 837; *Oligotoma* sp. n.

Paraneuroptera.

Calvert, 465; *Erpetogomphus* sp. n.
Costa Rica.

Orthoptera.

Burr, 449; *Spongovostox* sp. n. Panama.

Rehn & Hebard, 2247; *Mogoplistii*, Panama, spp. n.

Thysanura.

Silvestri, 2590; Mexico *Campodeidae*, spp. n.—Silvestri, 2595; *Thysanura*, Mexico 23 spp., 2 spp. n.

Antilles.

Incl. Bermudas; excl. Trinidad.

Colcoptera.

Arrow, 54; *Phytalus* sp. n.

Bickhardt, 230; Barbados *Acritus* sp. n.

Casey, 493; Cuba *Stenodontes* sp. n.

Olivier, 1998; *Photinus* sp. n.—Olivier, 2003; *Lampyrides*.

Hymenoptera.

Bartlett, 140; Cuba *Scolia* sp. n.

Cockerell, 550; S. Domingo *Centris* sp. n.—Cockerell, 556; Jamaica *Apidae* spp. n.

Enderlein, 855; Cuba *Paniscus* sp. n.

Forel, 948; *Formicidae*.—Forel, 956; Cuba *Pheidole* sp. n.

Hooker, 1286; *Ophionini* spp. n.

Morley, 1884; *Ichneumonidae* spp. n.

Zavattari, 3241; *Eumeniden*, Cuba spp. n.

Lepidoptera.

Hampson, 1167; *Pyraustinae* spp. n.—Hampson, 1169; *Noctuidae* spp. n.

Prout, 2181; Bahamas *Racheospila* sp. n., Antigua *Synchlora* sp. n.

Rothschild, 2361; *Syntomidae* spp. n.

Skinner, 2608; Cuba *Mesosemia* sp. n.

Walsingham, 2950; Jamaica gen. n. *Oecophoridae*.

Diptera.

Alexander, 17; *Rhipidia* spp. n.—Alexander, 19; Cuba *Furcomyia* sp. n.—Alexander, 25; Porto Rico gen. n. *Tipulidae*.

Felt, 907; St. Vincent *Lasiopteryx* sp. n.—Felt, 909; *Cecidomyiidae* spp. n.—Felt, 910; *Ulella* sp. n. St. Vincent.

Hemiptera.

Back, 88; Cuba *Aleyrodes* 2 spp. n.

Distant, 724; Cuba gen. n. *Cicadidae*.

Reuter, 2286; Porto Rico *Pycnoderes* sp. n.

Reuter & Poppius, 2288; Jamaica *Termtophyliden* sp. n.

Scott, 2536; Dominica *Microvelia* sp. n.

Van Duzee, 2852; Jamaica *Xestcephalus* sp. n.

Paraneuroptera.

Wilson, 3206; Jamaica.

Orthoptera.

Caudell, 500; *Gonatista* sp. n. San Domingo.

Rehn & Hebard, 2247; *Gryllidae* spp. n.

South America, including Trinidad.

Insecta, collectively.

Navás, 1918; *Ephemeroptera*, *Psoptera*, *Neuroptera*, spp. n.

Scott, 2536; Trinidad bromeliaecolous insects.

Coleoptera.

Bernhauer, 207; *Staphyliniden*, spp. n.—Bernhauer, 210; *Staphyliniden* 3 n. genn. 20 spp. n.—Bernhauer, 212; *Staphyliniden* spp. n., gen. n.

Bickhardt, 230; *Hypobletus* spp. n.

Borchmann, 277; Neue Heteromeren, Argentinien.

Bourgeois, 301; *Bahia Gymnetis* sp. n.

Bowditch, 305; *Diabrotica* spp. n.

Brèthes, 334; *Eustilbus* sp. n.—
Brèthes, 235; *Pandeleterius* sp. n.

Bruch, 410; *Oxycorynus* sp. n.—
Bruch, 411; Argentina *Cerambycidae*
spp. n.—Bruch, 412; Argentina *Ceram-*
bycidae catalogue.

Casey, 492; Revision, *Asidini*.—
Casey, 493; *Cerambycidae*, spp. n.

Flautiaux, 941; *Eucnemidae* spp. n.
—Flautiaux, 943; *Elateridae*, gen. n.

Gebien, 1024; *Tenebrionidae* spp. n.

Heller, 1208; *Metamasiopsis*, spp. n.

Kuntzen, 1593; *Dercylus*, spp. n.

Lesne, 1676; *Aseutotheca*, sp. n.

Lewis, 1682; *Histeridae* 3 spp. n.

Mann; Brazil, List, *Histeridae* and
Buprestidae.

Möllenkamp, 1862; *Lucanidae* spp. n.

Moser, 1892; *Gymnetis* sp. n.

Ohaus, 1984; *Aclopus* sp. n.—Ohaus,
1986; *Hoplognathus* n. sp.—Ohaus,
1991; *Ruteliden* spp. n.

Nunemacher, 1976; *Coccinellidae*,
Brazil 2 spp. n.

Olivier, 1997; *Diaphanes* and *Luci-*
dota sp. n.—Olivier, 2002; *Lampyridae*
spp. n.

Pic, 2095; spp. n., *Malacodermidae*
Anobiidae and *Anthicidae*.—Pic, 2099;
Discodon spp. n.—Pic, 2115; Deux
nouveaux *Discodon*.

Prell, 2172; *Heterogomphus* spp. n.—
Prell, 2174; *Dynastinen* spp. n.—Prell,
2175; *Dynastinen* gen. n.

Raffray, 2220; *Prelaphidae* spp. n.

Rothkirch & Panten, 2351; Neue
Stigmoderidae.

Sampson, 2404; Trinidad, 2 spp. n.,
Amphicranus and *Xyleborus*.

Schaeffer, 2423; Brazil spp. n.

Schmidt, 2451; *Coprini* spp. n.

Sicard, 2575; *Coccinellides* spp. n.—

Sicard, 2576; *Coccinellides* Bolivie
spp. n.

Spaeth, 2634; Neue *Cassiden*.

Szombáthy, 2751a; *Semiotus* spp. n.

Wagner, 2929, 2936, 2930; *Apion*
spp. n.

Wasmann, 2967; *Staphylinidae*
gen. n.

Waterhouse, 2970; *Conognatha*
spp. n.

Wolcott, 3219; *Cleridae* Brazil,
spp. n.

Hymenoptera.

Alexander, 16; *Tipulinae* spp. n.

Bertoni, 215; 2 spp. n., *Xanthogo-*
nalos and *Trimeria*.

Brues, 413; Brazilian *Ichneumoni-*
dae and *Braconidae* spp. n.

Cameron, 475 & 476; *Aculeata*
many spp. n.

Cockerell, 556; Peru *Megachile* sp. n.
—Cockerell, 568; Peru 2 spp. n.,
Megachile and *Xenoglossa*.—Cockerell,
571; Brazil *Apidae* spp. n.

Crawford, 616; *Chalcidae* spp. n.

Du Buysson, 775; *Oryssus* sp. n.
Chrysidae gen. n.

Ducke, 776; Die natürlichen Bien-
engenera, spp. n.

Enderlein, 839; *Spathiinen* spp. n.—
Enderlein, 840; Colombia *Eubadizon*
sp. n.—Enderlein, 855; *Paniscinae*
spp. n.—Enderlein, 859; *Ophioninae*
spp. n.

Forel, 948; *Formicidae* spp. n.—
Forel, 950; *Myrmicinae* spp. n.—
Forel, 951; *Pheidole* and *Cremasto-*
gaster spp. n.—Forel, 952; *Myrmi-*
cinae spp. n.—Forel, 953; *Delicho-*
derinae spp. n.—Forel, 954; *Campono-*
tinae spp. n.

Friese, 980; *Apidae* spp. n.—Friese,
984; Argentinien *Colletes* 2 spp. n.

Girault, 1056; Paraguay *Chalcidi-*
dae spp. n.

Hooker, 1286; *Ophionini* spp. n.

Jörgensen, 1400; *Chrysididae* and
Aculeata enumeration.—Jörgensen,
1401; spp. n. Apiden Mendoza.—
Jörgensen, 1402; Berichtigungen und
Ergänzungen Apiden.

Jörgensen, Schrottky, 1403; *Megalo-*
pta sp. n.

Kieffer, 1506; Chile and Patagonia
Proctotrypidae 2 spp. n.

- Maidl, 1745; *Xylocopa* spp. n.
 Moczáry, 1858; *Chrysis* spp. n.
 Morley, 1884; *Ichneumonidae* spp. n.
 Rohwer, 2335; Brazil *Tenthredinidae* gen. n.—Rohwer, 2336; *Fossoria* spp. n.
 Santschi, 2412; *Carebara* sp. n.—Santschi, 2415; Fourmis.
 Schulz, 2504; *Hoplitalysia* sp. n.
 Strand, 2680; *Evania*, *Macrojoppa* spp. n.—Strand, 2703; Beiträge zur Kenntnis der *Hymenopteren* Paraguay Biologica bes. Nester.
 Turner, 2825; *Elis* 2 spp. n.
 Viereck, 2882; *Ichneumonidae* and *Braconidae* spp. n.—Viereck, 2883; Trinidad *Chelonus* sp. n.
 Zavattari, 3241; Neotropischen Eumeniden.

Lepidoptera.

- Brabant, 306; *Pseudacontia* sp. n.
 Dognin, 749; Macro-Heterocera and *Pyralidae* many spp. n.—Dognin, 750; Hétérocères nouveaux.
 Druce, 763; *Thecla* and *Hesperiidae* spp. n.—Druce, 765; Peru *Ophisma* sp. n.—Druce, 766; Peru *Atteria* sp. n.
 Dyar, 974; Trinidad *Noctuidae* gen. n.—Dyar, 795; Brazil *Semyra* sp. n.
 Fassl, 898; Neue *Heliconius*-formen, Kolumbien.—Fassl, 899; *Papilio* sp. n.
 Fruhstorfer, 993; Nymphaliden.—Fruhstorfer, 996; Pieriden.
 Hampson, 1167; *Pyraustinae* many spp. n.—Hampson, 1169; *Noctuidae* spp. n.
 Jones, 1442; *Thecla* spp. n.—Jones, 1423; Brazil spp. n.
 Jordan, 1893; *Protoparce* sp. n.—Jordan, 1432; *Nyceryx* sp. n.
 Lathy & Rosenberg, 1636; *Catantacta* spp. n.
 Lehr, 1661; Schmetterlingsfauna der Pampas.
 Meyrick, 1838; *Microlep.* 97 spp. n., 9 genn. n.—Meyrick, 1839; spp. n.
 Neustetter, 1950; Neue *Heliconius*.
 Prout, 2181; *Hemitheinae* spp. n.
 Rébel, 2239; *Callithea* sp. n. Peru.

- Rothschild, 2361; *Syntomidae* spp. n.—Rothschild, 2362; *Lithosianae* spp. n.
 Schaus, 2427; *Mesoscia* sp. n.—Schaus, 2428; *Noctuidae* spp. n. French Guiana.
 Schrottky, 2493; Zwei Syntomiden Argentinien.
 Strand, 2675 & 2686; spp. n.—Strand, 2698; Neue Satyriden Roraima.
 Walsingham, 2950; *Tineidae* spp. n.
 Zerny, 3247; *Heterocera* spp. n.

Trichoptera.

- Martynov, 1781; Peru spp. n.

Neuroptera.

- Navás, 1915; spp. n.—Navás, 1916; gen. n. *Myrmeleonidae*.—Navás, 1917; *Allochrysa* sp. n.—Navás, 1919; *Ascalaphidae*.—Navás, 1920; Brazil gen. n. *Myrmeleonidae*.
 Petersen, 2073; 2 spp. n.

Diptera.

- Alexander, 17; *Rhiphidae* spp. n.—Alexander, 19; *Furcomyia* sp. n.—Alexander, 22; *Gonomyia* sp. n.
 Becker, 155; *Chloropidae*, Monographie, gen. et spp. n.
 Brèthes, 337; *Chironomidae* gen. n.
 Cresson, 619; *Acalyptratae* spp. n.
 Edwards, 807; Trinidad *Lygistorrhina* sp. n.
 Enderlein, 838; *Mycetophilidae* spp. n.—Enderlein, 842; Richardiinen, n. gg. et spp.—Enderlein, 847; Phoriden Süd-Brasilien.—Enderlein, 848; *Pterocallinae* gen. n.—Enderlein, 853; *Phoridae* spp. n.—Enderlein, 854; Neue Chironomiden Brasilien.—Enderlein, 861.—Enderlein, 862; *Pantophthalmidae* spp. n.—Enderlein, 866; *Dolichopidae* spp. n.—Enderlein, 863; *Tipulidae* genn. n.
 Felt, 914; *Karschomyia* sp. n. Peru.
 Hendel, 1220; *Acalyptratae* 5 spp. n.
 Hermann, 1225; Chile, Peru and Bolivia, genn. et spp. n. *Asilidae*.
 Lahille, 1614; *Anopheles* sp. n.
 Lutz & Neiva, 1725; *Phlebotomus* spp. n.

Malloch, 1750; *Simulium* spp. n.

Summers, 2726; *Phlebotomus* sp. n.

Surcouf & Gonzalez-Rincones, 2734; Diptères piqueurs et suceurs de sang Vénézuëla.

Townsend, 2794; Muscoid from the Andean and Pacific coast.

Aphaniptera.

Enderlein, 860; gen. n.

Hemiptera.

Bergroth, 180; Argentina *Coreidae* spp. n.—Bergroth, 182; Argentina gen. n. *Myodochidae*.

Bredden, 323; *Calamocoris*.—Bredden, 325; Pentatomiden 2 genn. n.—Bredden, 326; spp. n. *Oncodochilus*, *Mormidea* and *Spiloslethus*.

Brêthes, 338; gen. n.

Distant, 724; *Cicadidae* spp. n.

Goot, 1085; *Aphis* sp. n. Chile.

Horváth, 1301; *Cimicidae*.

Lallemand, 1618; *Cercopidae* spp. n.

Montandon, 1869; Brazil *Limnecoris* sp. n.—Montandon, 1870; 2 spp. n., *Ranatra* and *Curicta*.

Petersen, 2071; New Ephemerida from Argentine.

Poppius, 2153; *Capsidae* gen. n.

Reuter, 2286; spp. n.

Schumacher, 2517; Neue Asopinen.

Thysanoptera.

Bagnall, 93; *Docessissophothrips* sp. n.

Karny, 1460; *Liothrips* sp. n.—Karny, 1463; Argentina *Hoplothrips* sp. n.

Embioptera.

Enderlein, 837; genn. n.

Lipoptera.

Paine, 2032; *Gyropus* sp. n.

Psocoptera.

Townsend, 2788; *Vulturops* gen. n.

Paraneuroptera.

Ris, 2313; *Gomphinae* spp. n.—Ris, 2314; spp. n.

Orthoptera.

Borelli, 287; *Forficulidae* gen. n.—Borelli, 288; Argentina *Doru* sp. n.

Bruner, 421; *Acridoidea*, many spp. n.

Burr, 441; *Psalis* sp. n.—Burr, 448; *Forficulidae* 4 spp. n.—Burr, 449; *Spongovostox* spp. n.

Caudell, 499; *Epigrypa* sp. n. Peru.

Chopard, 538; Guyane française spp. n., *Mantidae* and *Phasmidae*.

Gahan, 1014; Amazons *Prisopus* sp. n.

Griffini, 1126; Patagonia *Heteromallus* sp. n.

Shelford, 2571; spp. n.—Shelford, 2573; *Blattidae* Central Peru.

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Metopleura gen. n. *Gelechiidae* p. 83, *potosi* sp. n. p. 84 Mexico, BUSCK Proc. Ent. Soc. Washington 14.

Micropardalis gen. n. *Micropterygidae* for *doroxena* M., MEYRICK p. 7 f. 2 Gen. ins. 132.

Mictopsichia picturata Assam p. 35, *hexaphala* Ceylon p. 36, MEYRICK Exot. Microlep. 1.

Mnemonic gen. n. *Micropterygidae* type '*subpurpurella*' Haw., MEYRICK p. 5 f. 8 Gen. ins. 132.

Mnesichara gen. n. near *Carcina*, *dictyota* Guatemala pl. vi f. 16, p. 126, *picticollis* Panama p. 127 f. 17, spp. n., WALSINGHAM Biol. Centr. Amer. Lep. Het. 4.

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Moriloma gen. n., *pardella* sp. n. p. 3, Panama, BUSCK Smithsonian Inst. Misc. Coll. 59 Pub. 2079.

Mothonica gen. n. *Stenomidae*, *peripta* sp. n. Costa Rica pl. v f. 20, WALSINGHAM p. 153 Biol. Centr.-Amer. Lep. Het. 4.

Myrmecozela glebifera, *leontina*, *metro-phora*, p. 126, spp. n., India, MEYRICK J. Bombay Soc. 21.

Necedes gen. n. *Oecophoridae*, *stigma-phylli* Jamaica with var. *brevipalpis*, p. 138, *incisa*, *championella* pl. iv f. 35,

p. 139, spp. n., Centr. America, WAL-SINGHAM Biol. Centr.-Amer. Lep. Het. 4.

Nemophora stenochlora sp. n. Algeria, MEYRICK p. 3 Gen. ins. 133.

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Odites crocata, *insons*, p. 60, spp. n., S. Africa, MEYRICK Ann. S. Afric. Mus. 10.

Oecophyllembius neglectus, storia naturale, SILVESTRI Boll. Lab. Portici 6 p. 176 33 fig.

Ommatothelxis grandis sp. n. Cameroons pl. x f. 9, DRUCE p. 133 Ent. Mag. 48.

Opogona orchestris Ceylon, *dramatica* Assam, *stathmota* Ceylon and S. India, *xanthocrita* S. India, *pandora* Assam, *sphaerotoma* S. India, *cerodelta* Himalayas, *plasturga*, *elaitis*, S. India, *photographa* Assam, spp. n., MEYRICK pp. 110–112 J. Bombay Soc. 21.

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Ordrupeja fanniella sp. n. p. 6 Panama, BUSCK Smithsonian Misc. Coll. 59 Pub. 2079.

Orphnolechia bathrogramma sp. n. Venezuela, MEYRICK p. 711 Tr. ent. Soc. London 1911.

Oxycryptis gen. n. *Gelechiidae*, *attonita* sp. n. Colombia, MEYRICK p. 692 T.c.

Paltodora helicauda, *hiberna*, p. 57, *magnanima* p. 56, *pentacentra* p. 57, spp. n., S. Africa, MEYRICK Ann. S. Afric. Mus. 10.

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Paraclemensia acerifoliella p. 56 pl. xviii & xvii f. 5, FELT N. Y. St. Mus. Bull. No. 155.

Parapodia gen. n. voisin d'*Apodia*, *tamaricicola* sp. n. France, p. 305, JOANNIS Bull. Soc. ent. France 1912.—*P. sinaica* Fr. (as *Gelechia*) = (*tamaricicola* Joann.), JOANNIS Bul. soc. ent. France 1912 p. 380.

Parastega gen. n. near *Stegasta* for *Psoricoptera niveisignella* Zell., MEYRICK p. 693 Tr. ent. Soc. London 1911.

Parectopa picroglossa p. 20, *thiasodes*, Ceylon, *haemataula* India, p. 21, spp. n. MEYRICK Gen. ins. 128.—*P. bathracma* sp. n. Transvaal, MEYRICK p. 25 Exot. Microlep. 1.

Peleopoda regiella sp. n. p. 7 Panama, BUSCK Smithsonian Misc. Coll. 59 Pub. 2079.

Phrixosceles lithographa sp. n. Queensland, MEYRICK p. 13 Gen. ins. 128.

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Phyllobrostis eremitella sp. n. p. 305 France, JOANNIS Bull. Soc. ent. France 1912.

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Picrospora gen. n., p. 66, *anastrotia* p. 67, *area* p. 66, spp. n., S. Africa, MEYRICK Ann. S. Afric. Mus. 10.

Plexippica gen. n. p. 64, *vertebrata* sp. n. S. Africa, MEYRICK T.c.

Plocamosaris gen. n. *Xyloryctidae*, *pandora* sp. n. Brazil, MEYRICK p. 706 Tr. ent. Soc. London 1911.

Polyortha chlamydata sp. n. Colombia, DOGNIN p. 50 Hét. nouv. 6.

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Prytaneutis gen. n. allied to *Lyonetia*, *clavigera* sp. n. Ceylon, p. 109, MEYRICK J. Bombay Soc. 21.

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Psilocorsis argyropasta Mexico pl. iv f. 8, *indalma*, p. 118, *purpurascens* f. 7, p. 119, Guatemala, spp. n., WALSINGHAM Biol. Centr.-Amer. Lep. Het. 4.

Pyroderces simplex = (*gossypiella* Wlsm.), DURRANT p. 207 Bull. ent. research 3.

Sabatinca caustica, *calliarcha*, p. 124, *quadrijuga* p. 126, spp. n., New Zealand, *S. incongruella* Walker supersedes *Palaeomicra chalcophanes* Meyr.; MEYRICK Trans. N. Zeal. Inst. 44.

Sapheneutis galerita sp. n. Himalaya p. 127, MEYRICK J. Bombay Soc. 21.—*S. granosa* p. 67 sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 10.

Scythris faeculenta, *melanodora*, p. 61, *roseola* p. 60, spp. n., S. Africa, MEYRICK T.c.

Scythropia crocostacta p. 65 sp. n. S. Africa, MEYRICK T.c.

Simaethis xanthogramma, *anthorma*, Philippines, p. 42, *trogalia*, *eumetra*, p. 43, *antichlora* p. 44, *strepsides* a, *cothurnata*, p. 45, *achyrodes*, Assam, *ialeura* India, p. 46, *psilachyra* Ceylon, *holachyrma*, *lethaea*, p. 47, Assam, *fulminea* Ceylon, *dichlora* Hainan, p. 48, *diplogramma*, *itriodes*, p. 49, *pilaria*, *halimora*, Assam, p. 50, spp. n., MEYRICK Exot. Microlep. 1.—*S. zomeuta*, *ministra*, p. 121, *analoga* p. 122, spp. n., N. Zealand, MEYRICK Trans. N. Zeal. Inst. 44.

Stenoma zelotes, *ceratistes*, *demotica*, p. 159, *phaula* pl. v f. 26, *plurima* f. 27, *epicta* f. 28, p. 160, *prosora* f. 29, *comosa* f. 30, p. 161, *ocellifer*, *fumifica* f. 21, *machetes*, p. 162, *hemiscia* p. 163, *discolor* p. 164, *fractinubes* f. 32, *caprimulga* f. 33, p. 165, *tolmeta* f. 34, *ochlodes* f. 35, *fractilinea*, p. 166, *mustela* pl. vi f. 1, *aphanes*, *homala* f. 8, p. 167, *petrina* f. 9, *catenifer*, p. 168, spp. n., Centr. America, WALSINGHAM Biol. Centr. Amer. Lep. Het. 4.—*S. megaleuca*, *isomeris*, p. 711, *melanesia*, *glaucopa*, p. 712, *trichorda*, *byrsinitis*, *paurocentra*, p. 713, *pelinitis*, *phaeophanes*, p. 714, *clavifera*, *melanixa*, p. 715, *macronota*, *fluminata*, p. 716, *orthocapna* p. 717, spp. n., S. America, MEYRICK Tr. ent. Soc. London 1911.—*S. dissimilis* Lebensweise der Raupen, LÜDERWALDT Zs. wiss. Insektenbiol. 8 p. 5.

Stomphastis gen. n. *Gracilariidae*, *plectica* sp. n. India, MEYRICK p. 19 Gen. ins. 128.

Taleporia aphrosticha sp. n. p. 123 N. Zealand, MEYRICK Trans. N. Zeal. Inst. 44.

Teleia hyoscyamella sp. n. Aegypt, REBEL p. 89 D. ent. Zs. Iris 26.

Teratcmorpha gen. n. near *Cryptolechia*, *albifrons* pl. iv f. 18, p. 127, *producta* p. 128 f. 19, spp. u., Centr. America, WALSINGHAM Biol. Centr. Amer. Lep. Het. 4.

Thaumatolita gen. n. near *Cryptolechia*, *hamifera* sp. n. Mexico pl. iv f. 6, p. 117, WALSINGHAM T.c.

Theatria gen. n. near *Symmoca*, *spudasma* sp. n. Panama pl. iv f. 4, WALSINGHAM p. 116 T.c.

Theristis mucronella ab. n. *obscura*, SCHOPFER p. 32 D. ent. Zs. Iris 26.

Thiotricha janitrix sp. n., MEYRICK p. 64 Exot. Microlep. 1.

Thisizima bubalopa sp. n. India and Ceylon p. 125, MEYRICK J. Bombay Soc. 21.

Thrasydoxa gen. n. *Glyphipterygidae*, *tyrocopa* sp. n. Colombia, MEYRICK Exot. Microlep. 1.

Thriambeutis coryphaea sp. n. Philippines, MEYRICK p. 61 Exot. Microlep. 1.

Thyestarcha gen. n., *edax* sp. n. S. Africa, MEYRICK p. 62 Ann. S. Afric. Mus. 10.

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Tinea suspiciosa p. 66 sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 10.—*T. artificiosa* sp. n. Ceylon p. 119, *brachychlora*, Ceylon, remarks, p. 117, *camarota canicoma*, *charmatica*, *chelyodes*, *choloea*, spp. n., India and Ceylon, pp. 117–120, *glabrella* notes S. India and Ceylon, p. 123, *hierographa*, *imbricata*, *iritis*, *isoplaca*, *melanochrysa*, *melliflua*, *opisigona*, *orphnodes*, *plasmatica*, spp. n., India, Baluchistan and Ceylon, pp. 116 120–123; *platyntis*, India, Burma and Ceylon, described p. 124, *sacerdos*, India described, p. 123, *sartoria* p. 120, *scenatica* p. 117; *schoenoploca* S. India p. 115, *sindonia* p. 118, *spharagistis* p. 121, *strophiota* p. 118, *trierodes* p. 117, *zalocoma* p. 121, spp. n., India and Ceylon, MEYRICK J. Bombay Soc. 21.

Tocasta gen. n., *priscella* sp. n., p. 4, Panama, BUSCK Smithsonian Inst. Misc. Coll. 59 Pub. 2079.

Tortyra sybaritis Queensland, *tabularia* Lifu, p. 37, *hyalozona* Colombia p. 38, spp. n., MEYRICK Exot. Microlep. 1.

Trichorhabda gen. n. *Adelidae* for *fasciolata* Butl., MEYRICK p. 3 Gen. ins. 133.

Trichotaphe directa sp. n. Venezuela, MEYRICK p. 694 Tr. ent. Soc. London 1911.

Trichothyrsa gen. n. *Glyphipterygidae*, *coridarcha* Assam, *flammivola* India, p. 61, *taedifera*, *pyrrhocomma*, Ceylon, *grypodes* India, p. 62, spp. n., MEYRICK Exot. Microlep. 1.

Triclonella xanthota Mexico pl. iv f. 32, *euzosta* Centr. and S. America, f. 33, spp. n., WALSINGHAM p. 137 Biol. Centr. Amer. Lep. Het. 4.

Trophimaea testata sp. n. Ceylon p. 121, MEYRICK J. Bombay Soc. 21.

Ulometra gen. n. *Adelidae* p. 27, *indigna* sp. n. Transvaal p. 28, MEYRICK Exot. Microlep. 1.

Urangela gen. n., *pygmaea* sp. n., p. 2, Panama, BUSCK Smithsonian Inst. Misc. Coll. 59 Pub. 2079.

Valentinia tarachodes p. 148 pl. v f. 16, *neptes* f. 17, *bromeliae*, p. 149, spp. n., Centr. America, WALSINGHAM Biol. Centr.-Amer. Lep. Het. 4.

Xylorycta navigatrix sp. n. Colombia, MEYRICK p. 705 Tr. ent. Soc. London 1911.

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philus flavicornis, ROQUES Paris C. R. ass. franç. avanc. sci. 40 1911 pp. 566-578 av. fig.

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†*Adelomyia* gen. n., inc. sed. p. 331, *exularis* sp. n. p. 333, Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Agraylea spathifera* sp. n. Bernstein, ULMER p. 39 T.c.

†*Allotrichia ampullata* sp. n., Bernstein, ULMER p. 40 T.c.

Apatania groenlandica sp. n. Groenland, KOLBE p. 41 Deutsche ent. Zeitschr. 1912.

†*Archaeocrunoecia* gen. n. near *cru-noecia* p. 288, *tenuicornis* p. 290, *validicornis*, *aperter*, p. 292, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Archaeoneureolipsis* gen. n. *Polycentropidae*, *fortis*, p. 69, *geminata* p. 11, spp. n., Bernstein, ULMER T.c.

†*Archactinodes* gen. n. near *Tinodes* p. 178, *armata* p. 183, *globata*, *lanceolata*, p. 185, *dives* p. 187, *pauper* p. 188, *uncinata* p. 189, *angusta* p. 192, *tenuis* p. 193, *securifera* p. 194, *hageni* p. 195, *exarata* p. 197, spp. n., Bernstein, ULMER T.c.

Atopsyche ikonnikovi sp. n. Peru, MARTYNOV Ann. mus. zool. Ac. sc. 17 p. 34 figs. 54-59.

†*Aulacomyia* gen. n. *Sericostomatidae*, *infusata* sp. n. Bernstein, ULMER pp. 321 & 322 Beitr. Naturk. Preussen 10.

†*Beraeodes pectinata* sp. n. Bernstein, ULMER p. 327 T.c.

Catoxyethira gen. n. *Hydroptilidae*, *fasciata* sp. n. Kongo, ULMER p. 82 Ergebn. Zentr.-Afrik. Exp. 4 L. 6.

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Chimarrha galeata p. 30 figs. 48-52, *consimilis* p. 33 fig. 53, spp. n., sp. ? Description p. 33, Peru, MARTYNOV Ann. mus. zool. Ac. sc. 17.

†*Diplectrona ocularia* p. 213, *minima* p. 215, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

Dipseudopsis bidens sp. n. O.-Afr., ULMER p. 88 Ergebn. Zentr.-Afrik. Exp. 4 L. 6.

Dolophilus insignis sp. n. Peru, MARTYNOV Ann. mus. zool. Ac. sc. 17 p. 29 figs. 44-47.

†*D. medius* p. 51, *congener* p. 52, *impar* p. 53, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Electracanthinus* gen. n. *Philopotamidae* p. 54, *klebsi* sp. n. p. 56, Bernstein, ULMER T.c.

†*Electragapetus* gen. n. near *Catagapetus*, *soitutus* sp. n. Bernstein, ULMER pp. 33-34 T.c.

†*Electraulax* gen. n. *Sericostomatidae* p. 295, *breviasscuta*, *longiuscula*, p. 296, spp. n., Bernstein, ULMER T.c.

†*Electrocerum* gen. n. *Odontoceridae*, *pedestre* sp. n. Bernstein, ULMER pp. 243 & 244 T.c.

†*Electrocrunoecia* gen. n. near *Crunoecia*, *turbata* sp. n. Bernstein, ULMER pp. 292 & 294 T.c.

†*Electrodiplectrona* gen. n. near *Diplectrona* p. 216, *decipiens* p. 218, sp. n. Bernstein, ULMER T.c.

†*Electrohelicopsyche* gen. n. fur *Mormonia taeniata* Pictet, ULMER p. 310 T.c.

†*Electropsilotes* gen. n. *Odontoceridae*, *rara* sp. n. Bernstein, ULMER pp. 246 & 247 T.c.

†*Electrotrichia* gen. n. *Hydroptilidae*, *subtilis* sp. n. Bernstein, ULMER pp. 42 & 43 T.c.

†*Erotesis aequalis* sp. n. Bernstein, ULMER p. 265 T.c.

†*Ganonema regulare* sp. n. Bernstein, ULMER p. 240 T.c.

†*Goëra gracilicornis* sp. n. Bernstein, ULMER p. 272 T.c.

Grammataulius bettenii sp. n. p. 18 pl. iii Oregon, HILL-GRIFFIN Ent. News 23.

Helicopsyche montana sp. n. Mexico, FELBER p. 46 Zeitschr. wiss. Insektbiol. 8.—*H. minuscula* sp. n. Peru, MARTYNOV Ann. mus. zool. Ac. sc. 17 p. 3 figs. 1-4.

†*H. typira*, *confluens*, spp. n., Bernstein, ULMER p. 307 Beitr. Naturk. Preussen 10.

†*Holocentropus consobrinus* p. 120, *consanguineus* p. 122, *pertatus* p. 124, *curvatus* p. 130, *omega* p. 131, *scissus* p. 183, *discedens* p. 135, *echinatus* p. 136, *cornutus* p. 137, *calcaratus* p. 138, *lanciger* p. 139, *uncatus* p. 140, spp. n., ULMER T.c.

†*Hydropsyche viduata* sp. n. Bernstein, ULMER T.c.

Hydroptila cruciata sp. n. O.-Afrika, ULMER p. 83 Ergebn. Zentr.-Afrik. Exp. 4 L. 6.

Leptocerus ramosus p. 103, *pulcher* p. 105, Kamerun, *curvatus* p. 107 Rives du Moyen Chari, *fissus* p. 108 O.-Afr., spp. n., ULMER T.c.

†*Lithax atrabula* sp. n. Bernstein, ULMER p. 274 Beitr. Naturk. Preussen 10.

†*Lype prolongata* p. 203, *eximia* p. 204, spp. n., Bernstein ULMER T.c.

Macronema distinctum sp. n. Sp. Guinea, ULMER p. 100 Ergebn. Zentr.-Afrik. Exp. 4 L. 6.

†*Maniconeurodes* gen. n. *Sericostomatidae*, *conwentzi* sp. n. Bernstein, ULMER pp. 202 & 303 Beitr. Naturk. Preussen 10.

Marilia elongata sp. n. p. 14 figs 17-20, sp. ? p. 16 fig. 21, *flexuosa* p. 17 figs. 22-27 Peru, MARTYNOV Ann. mus. zool. Ac. sc. 17.

†*M. ophthalmica* sp. n. Bernstein, ULMER p. 248 Beitr. Naturk. Preussen 10.

†*Molanna crassicornis* sp. n. Bernstein, ULMER p. 254 T.c.

†*Molannodes indubia* p. 251, *dubia* p. 252, spp. n., Bernstein, ULMER T.c.

Mortoniella tranquilla sp. n. Peru MARTYNOV Ann. mus. zool. Ac. sc. 17 p. 38.

Mystacides alafimbriata sp. n. p. 19 pl. iv Oregon, HILL-GRIFFIN Ent. News 23.

†*Neureclipsis geniculata* p. 73, *proxima* p. 74, *tornquisti* p. 75, *exsculpta* p. 77, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Nyctiophylacodes* gen. n. near *Nyctiophylax*, *curtula* sp. n. Bernstein, ULMER pp. 172 & 173 T.c.

Nyctiophylax danubicus sp. n. Bes-sarabien (Russ.), MARTYNOV Varšava Izv. Univ. 1912 5 pp. 4–8 ff. 2–7.

†*N. rectus* p. 144, *hamatus* p. 145, *claviger* p. 147, *pexus* p. 148, *varians* p. 149, *repandus* p. 152, *bidentatus* p. 154, *diffusus* p. 155, *insectus* p. 156, *ovatus*, *acutus*, p. 157, *unguicularis* p. 159, *articulatus* p. 160, *coalitus* p. 161, *procerus* p. 162, *subacuminatus* p. 163, *sellatus* p. 164, *excelsus* p. 165, *curvus* p. 166, *sinuatus* p. 167, *serpentinus* p. 169, *quadruplex* p. 171, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

Oecetis furva (Russ.), MARTYNOV Varšava Izv. Univ. 1912 5 p. 2 f. 1.

†*Ogmomyia* gen. n. inc. sed. p. 333, *cuspidata* sp. n. p. 335, Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Palaeagapetus* gen. n. *Glossosomatinae*, *rotundatus* sp. n., Bernstein, ULMER pp. 35 & 36 T.c.

†*Palaeocrunocia* gen. n. near *Crunocia* p. 282, *crenata* p. 283, *attenuata* p. 285, *abbreviata* p. 286, spp. n., Bernstein, ULMER T.c.

†*Palacohelicopsyche* gen. n. near *Helicopsyche*, *serricornis* sp. n. Bernstein, ULMER pp. 308–309 T.c.

†*Palacolepidostoma* gen. n. für *Trichotomum proavum* Hagen, ULMER p. 297 T.c.

†*Perisomyia* gen. n. (inc. sed.) p. 328, *sulcata* sp. n. p. 330 Bernstein, ULMER T.c.

†*Philopotamus hamatus* sp. n. Bernstein, ULMER p. 45 T.c.

†*Phryganea latissima* p. 232, *egregia* p. 234, *singularis* p. 236, spp. n. Bernstein, ULMER T.c.

Phylloicus bromelianum, BANKS Ent. News 23 p. 80.—*P. spectabilis* sp. n. p. 9 figs. 9–12, *assimilis*? p. 13 figs. 13–16, Peru, MARTYNOV Ann. mus. zool. Ac. St. Petersburg. 17.

†*Phylocentropus simplex* p. 63, *spiniger* p. 65, *ligulatus* p. 66, *antiquus* p. 68, spp. n., Bernstein, ULMER Beitr. Naturk. Preussen 10.

†*Plectrocnemia excavata* p. 88, *furcata* p. 90, *protensa* p. 91, *tubulosa* p. 92, *triangulata* p. 94, *singularis* p. 95, *prismatica* p. 96, *spinosa* p. 97, *clavata* p. 99, *ventralis* p. 102, *rostrata* p. 103, *macilenta* p. 105, *spinigera* p. 106, *angulata* p. 109, *simplicissima*, *dissicta* p. 110, spp. n., Bernstein, ULMER T.c.

†*Potamyia nitida* sp. n. Bernstein, ULMER p. 210 T.c.

Protodipseudopsis decolorata sp. n. W.-Afr., ULMER p. 89 Ergebn. Zentr.-Afrik. Exp. 4 L. 6.

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XIII. PROCHORDATA

INCLUDING

ENTEROPNEUSTA AND PTEROBRANCHIA

ARRANGED BY

I. B. J. SOLLAS

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XIV. VERTEBRATA

(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces

ARRANGED BY

D. S H A R P

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Ateleobranchium gen. n. *pterotum* sp. n. Kamchatka, GILBERT & BURKE t.c. p. 94 f. 37.

Macruroides gen. n. *inflaticeps* sp. n. Philippines, RADCLIFFE Proc. U. S. Nat. Mus. 43 1912 p. 139 pl. xxxi f. 2.

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Centriscus [*Amphisile*] *cristatus* descr., OGILBY Ann. Queensland Mus. 10 1911 p. 41.

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Syngnathidae of Ceylon, DUNCKER Spolia Zeylan. 7 pt. 25 1910 pp. 25–34 1 pl.

On the subfamilies and genera, DUNCKER Jahrb. wiss. Anst. Hamburg 29 1912 pp. 219–240.

Acanthognathus gen. n. type *A. dactylophorus* Bleek., DUNCKER t.c. p. 228.

Micrognathus gen. n. type *M. brevirostris* Rüpp., DUNCKER t.c. p. 235.

Doryichthys ocellatus sp. n. Ceylon, DUNCKER Spolia Zeylan. 7 pt. 25 1910 p. 28 fig.—*D. stictorhynchus* sp. n. Queensland, OGILBY Mem. Queensland Mus. 1 1912 p. 34.

Siphostoma torrci sp. n. Cuba, NICHOLS Bull. Amer. Mus. 31 1912 p. 183 fig.

Urocampus southwelli sp. n. Ceylon, DUNCKER t.c. p. 30 fig.

Corythoichthys quinquarius figured, SNYDER Proc. U. S. Nat. Mus. 42

1912 pl. lii f. 1.—*C. poecilolaemus* figured, McCULLOCH Rec. W. Austral. Mus. 1 1912 p. 81 f. 2.

Syngnathus tigris figured, McCULLOCH t.c. p. 83 pl. xi f. 2.—*S. yoshi* figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. li f. 3.—*S. spicifer*, *argyrostictus*, notes, DUNCKER t.c. p. 31.—*S. acus*, development of pectoral arch, BUIST Ann. Mag. Nat. Hist. ser 8 10 1912 pp. 613–621 pl. xiii.

Microphis extensus pl. lxii f. 2, *ocellatus* pl. lxiii f. 1, figured, SNYDER Proc. U. S. Nat. Mus. 42 1912.

Ichthyocampus nox figured, SNYDER t.c. pl. lxii f. 2.

Nannocampus nanus sp. n. Bahama Is., ROSÉN Lund Univ. Årsskr. N.F. 7 Afd. 2 No. 3 p. 50 fig. 4.

BERYCOMORPHI.

POLYMIXIIDAE.

†*Omosoma sahelamae* descr. and fig., ERASMO Riv. ital. Pal. 18 1912 p. 97 pl. iii f. 5.

†*Pycnosterinx russegeri*, *auratus*, descr. and fig., ERASMO Riv. ital. Pal. 18 1912 pp. 93–97 pl. iii ff. 1–4.

†BERYCOPSIDAE.

†*Berycopsis elegans* figured, WOODWARD Monogr. Palaeont. Soc. pl. liii f. 1.

CARISTIIDAE.

Platyberyx = *Caristius*, REGAN Ann. Mag. Nat. Hist. (8) 10 1912 p. 637.

ZEOMORPHI.

ZEIDAE.

Oreosoma atlanticum descr. fr. N. Zealand, WAITE Trans. N. Zeal. Inst. 44 p. 197 pl. xi.

Parazenopsis gen. n. *argenteus* sp. n. Morocco, CLIGNY Ann. stat. aquic. Boulogne-sur-Mer 2 1912 p. 82 = *Zeus conchifer*, Lowe, CLIGNY, t.c. p. 104.

PERCOMORPHI.

PERCOIDEA.

SERRANIDAE.

†*Otolithus (Percidarum) aequalis* var. *burdigalensis* var. n. Miocene of Bordeaux, PRIEM Bull. soc. géol. France ser. 4 11 1911 p. 41 f. 4.

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Bostockia hemigramma figured, McCULLOCH Rec. W. Austral. Mus. 1 1912 pl. x f. 3.

Anthias louisi sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 124.

Pseudanthias venator figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. liii f. 1.

KUHLIDAE.

Kuhlia, Japanese spp., JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 pp. 521–526.—*K. humilis* descr. and fig., OGILBY Ann. Queensland Mus. 10 1911 p. 46.

Safrole nom. n. = *Boulengerina* Jordan nec Dollo, JORDAN Proc. U. S. Nat. Mus. 42 1912 p. 655.

Edelia vittata figured, McCULLOCH Rec. W. Austral. Mus. 1 1912 pl. x f. 2.

PLESIOPIDAE.

Paraplesiops meleagris figured, McCULLOCH Rec. W. Austral. Mus. 1 1912 pl. ix.

Trachinops taeniatus, occurrence in Tasmania, HALL Proc. Roy. Soc. Tasmania 1911 p. 32.

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Acanthoplesiops gen. n. type *Acanthoclinus indicus* Day, REGAN l.c.

PRIACANTHIDAE.

Japanese spp., JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 pp. 527–535.

CHILODIPTERIDAE.

Apogonichthys nufae figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxiii f. 2.

Amia berthae p. 47 pl. v f. 1, *nigripes* p. 49 pl. v f. 2, spp. n., Queensland, OGILBY Ann. Queensland Mus. 10 1911.—*Amia diencaea* p. 431 pl. xxxiv f. 1 *parvula* p. 432 pl. xxxiv f. 2, *hyalina* p. 433 pl. xxxvi f. 3, *diversa*

p. 434 pl. xxxvii f. 1, *nigrocincta* p. 435 pl. xxxvii f. 2, *uninotata* p. 436 pl. xxxiv f. 3, *striata* p. 437 pl. xxxv f. 1, *albomarginata* p. 438 pl. xxxv f. 2, *atrogaster* p. 439 pl. xxxv f. 3, spp. n., Philippines, RADCLIFFE Proc. U. S. Nat. Mus. 41 1912.

Amioides subgen. n. (*Amia*) *grosidens* sp. n. Philippines, RADCLIFFE t.c. p. 440 pl. xxxvi f. 1.

Neamia gen. n. *octospina* sp. n. Philippines, RADCLIFFE t.c. p. 441 pl. xxxvi f. 2.

Chilodipterus nigrotaeniatus p. 442 pl. xxxvii f. 3, *zonatus* p. 443 pl. xxxviii f. 1, spp. n., Philippines, RADCLIFFE t.c.

Synagrops serratospinosa sp. n. Philippines, RADCLIFFE t.c. p. 444 pl. xxxviii f. 2.

Hynnodus megalops sp. n. Philippines, RADCLIFFE t.c. p. 445 pl. xxxviii f. 3.

Parasphyraenops gen. n. *atrimanus* sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 124.

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LATILIDAE.

Latilus ruber Kishinouye descr., SNYDER Proc. U. S. Nat. Mus. 42 1912 p. 417.

SILLAGINIDAE.

Sillago bostockii figured, McCULLOCH Rec. W. Austral. Mus. 1 1912 pl. x f. 1.

ERYTHRICHTHYIDAE.

Erythrichthys scintillans sp. n. Hawaii, JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 p. 599.

LUTIANIDAE.

Platynius amoenus figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxiii f. 3.

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POMADASIDAE.

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Xystaema havana sp. n. Cuba, NICHOLS Bull. Amer. Mus. 31 1912 p. 189.

Liognathus hastatus p. 58, *moretoniensis* p. 59, spp. n., Queensland, OGILBY Mem. Queensland Mus. 1 1912.

SCIAENIDAE.

†*Otolithus* (*Sciaenidarum*) *corii* var. *Cossmanni* var. n. p. 42 ff. 5 6, *pyrenaicus* sp. n. p. 43 f. 7, Helvetian Basses-Pyrénées, PRIEM t.c.

†*Otolithus* (*Sciaena*) aff. *ovatus* var. *Grossourrei* var. n. Miocene of France, PRIEM Bull. soc. géol. France ser. 4 11 1911 p. 39 fig. 1.

LETHRINIDAE.

Lethrinus laticaudis redescr., OGILBY Mem. Queensland Mus. 1 1912 p. 52.

Pentapus formosulus figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxiv f. 1.

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Japanese spp., JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 pp. 557-588.

Evynnis gen. n. type *Pagrus cardinalis*, JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 p. 573.

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Japanese spp., JORDAN & THOMPSON Proc. U. S. Nat. Mus. 41 1912 pp. 588-597.

Kyphosus gibsoni sp. n. Queensland, OGILBY Mem. Queensland Mus. 1 1912 p. 50.

PEMPHERIDAE.

Catalufa umbra figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lii f. 3.

CHAETODONTIDAE.

Chaetodon aurora De Vis = *falcula* Bl. *nigripes* De Vis = *citrinellus* C. & V. *germanus* De Vis = *pelewensis* Kner, OGILBY Mem. Queensland Mus. 1 1912 p. 54.

Holacanthus spynx De Vis = *cyanotis* Gthr., OGILBY l.c.

H. potteri sp. n. Honolulu, JORDAN & METZ Proc. U. S. Nat. Mus. 42 1912 p. 525 pl. lxxi f. 1.

ENOPLOSIDAE.

Enoplosus serotinus sp. n. Queensland, DE VIS Ann. Queensland Mus. 10 1911 p. 29.

CICHLIDAE.

Nannacara taenia sp. n. Amazon, REGAN Ann. Mag. Nat. Hist. (8) 9 1912 p. 505.—*N. bimaculata* sp. n. Brit. Guiana, EIGENMANN Mem. Carnegie Mus. 5 1912 p. 488 pl. lxvi f. 1.

Aequidens potaroensis sp. n. Brit. Guiana, EIGENMANN t.c. p. 490 pl. lxvi f. 2.—*A. azurifer* sp. n. W. Ecuador, FOWLER Proc. Acad. Philad. 63 1911 p. 515 f. 7.

Acarichthys gen. n, type *Acara heckelii* M. & T., EIGENMANN, t.c. p. 500.

Heterogramma ortmanni sp. n. Brit. Guiana, EIGENMANN t.c. p. 506 pl. lxxviii f. 1.

Geophagus pellegrini p. 505, *hondae* p. 506, spp. n., Colombia, REGAN t.c.

Crenicichla alta sp. n. Brit. Guiana, EIGENMANN t.c. p. 516 pl. lxxviii f. 3.

Cichlosoma (Parapetenia) atromaculatum sp. n. Colombia, REGAN t.c. p. 507.

Cichlasoma tuba, spilotum, spp. n., Costa Rica, MEEK Field Mus. Publ. Zool. 10 1912 p. 73.

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T. grahami n. sp. Brit. E. Africa, BOULENGER ib. 9 1912 p. 519.—*T. percivali* sp. n. Brit. E. Africa, BOULENGER Proc. Zool. Soc. 1912 p. 676 pl. lxxix f. 3.

POMACENTRIDAE.

Chromis verater sp. n. Honolulu, JORDAN & METZ Proc. U. S. Nat. Mus. 42 1912 p. 526 pl. lxxi f. 2.

Abudefduf clarki pl. liii f. 2, *richardsoni* pl. lxiv f. 2, *rex* pl. lxiv f. 3, *rhoma-leus* pl. lxv f. 1, figured, SNYDER Proc. U. S. Nat. Mus. 42 1912.

LABRIDAE.

Pseudolabrus parilus p. 90 pl. xii, *bostockii* p. 91 pl. xi f. 1, figured, McCULLOCH Rec. W. Austral. Mus. 1 1912.

Lepidalois mirabilis figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxvi f. 1.

Choerodon weberi sp. n. Aru Is., OGILBY Ann. Queensland Mus. 10 1911 p. 52.—*C. jordani* figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxv f. 2.

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Callyodon lunula pl. lxvi f. 2, *bowersii* pl. lxvi f. 3, *oedema* pl. lxvii f. 1, figured, SNYDER Proc. U. S. Nat. Mus. 42 1912.

Pseudoscarus plumbeus sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 125.

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Gadopsis is a Percoid, REGAN Ann. Mag. Nat. Hist. (8) 10 1912 p. 266.

BATHYMASTERIDAE.

Bathymaster caeruleofasciatus sp. n. Bering Sea, GILBERT & BURKE Bull. U. S. Bur. Fish. 30 p. 84 f. 29.

PARAPERCIDIDAE.

Neopercis macrophthalmus sp. n. Formosa, PIETSCHMANN Ann. Hofmus. Wien 25 1911 p. 431.

CALLIONYMIDAE.

Draculo mirabilis figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxi f. 2.

Callionymus macdonaldi sp. n. Queensland, OGILBY Ann. Queensland Mus. 10 1911 p. 56 pl. vi f. 2.

BOVICHTHYIDAE.

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MUGILIDAE.

Agonostomus bryanti sp. n. Java, BEAN & WEED Proc. U. S. Nat. Mus. 42 1912 p. 597 fig.

Mugil pseudotelestes sp. n. Schatt el Arab, PIETSCHMANN Anz. Akad. Wien 1912 p. 268.

ATHERINIDAE.

Atherina pinguis p. 38 pl. xii f. 1, *lacunosa* p. 40 pl. xii f. 2, figured, *A. honoriae* p. 42 pl. xii f. 3 sp. n. Queensland, OGILBY Mem. Queensland Mus. 1 1912; *A. mugiloides* nom. n. = *A. punctata* De Vis nec Bennett, McCULLOCH Proc. R. Soc. Queensland 24 1912 p. 47 fig.

Craterocephalus gen. n. *fluviatilis* sp. n. N.S. Wales, McCULLOCH t.c. p. 48 pl. i f. 1.

C. maculatus Macleay figured, McCULLOCH t.c. pl. i f. 2.

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POLYNEMIDAE.

Polydactylus specularis descr., OGILBY Ann. Queensland Mus. 10 1911 p. 44.

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STROMATEIDAE.

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Eucrotus gen. n. *ventralis* sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 123.

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ANABANTIDAE.

Anabas ansorgii sp. n. Congo, BOULENGER Ann. Mus. Congo Zool. ser. 1 2 fasc. 3 1912 p. 23 pl. xvii f. 7.

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Jordanidia raptoria figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lii f. 2.

SCOMBROIDEA.

SCOMBRIDAE.

Acanthocybium forbesi sp. n. Philippines, SEALE Philippine Journ. Sci. D. 7 No. 4 1912 p. 283 fig.

SIGANOIDEA.

SIGANIDAE.

Siganus consobrinus p. 54 pl. xiii. *aurolineatus* p. 56, spp. n. Queensland, OGILBY Mem. Queensland Mus. 1 1912.

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ELEOTRIDAE.

Eleotris fortis sp. n. Formosa, TANAKA Fish. Japan p. 106 pls. xxvii ff. 108 & 109 xxviii f. 113.—*E. latifasciatus* sp. n. Panama, MEEK & HILDEBRAND Publ. Field Mus. Zool. 10 1912 p. 68.

Parioglossus gen. n. *taeniatus* sp. n. Aldabra, REGAN Trans. Linn. Soc. 15 pt. 2 1912 p. 302.

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Xenisthmus proriger figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lxviii f. 3.

GOBIDAE.

Nematogobius ansorgii figured, BOULENGER Ann. Mus. Congo Zool. ser. 1 2 fasc. 3 pl. xvii f. 8.

Awaous macropterus sp. n. Ceylon, DUNOKER Jahrb. wiss. Anst. 29 1912 p. 252 fig.

Garmannia rubra sp. n. Bahama Is., ROSÉN Lund Univ. Årsskr. N.F. 7 Afd. 2 No. 5 p. 63 fig. 1.

Mucogobius gen. n. type *Gobius mucosus* Günth., McCULLOCH Rec. W. Austral. Mus. 1 1912 p. 93.

Gobius (Cryptocentrus) stigmatophorus sp. n. Waigeu, BEAUFORT Zool. Anz. 39 1912 p. 136.

Gobius (Rhinogobius) scapulopunctatus sp. n. Waigeu, BEAUFORT t.c. p. 137.

Schismatogobius gen. n. *bruynisi* sp. n. R. Eme, Ceram, BEAUFORT t.c. p. 139.

Sicyopterus longifilis p. 140, *brevis* p. 141, spp. n., Ceram, BEAUFORT t.c.

Sicyopus multisquamatus sp. n. Ceram, BEAUFORT t.c. p. 142.

Doryptena okinawae, pl. lxvii f. 2, *tanegasimae* pl. lix f. 2, figured, SNYDER Proc. U. S. Nat. Mus. 42 1912.

Heteroleotris arenarius figured, SNYDER t.c. pl. lxvii f. 3.

Zonogobius boreus figured, SNYDER t.c. pl. lix f. 3.

Gnatholepis sindonis figured, SNYDER t.c. pl. lxviii f. 1.

Amblygobius naraharæ figured, SNYDER t.c. pl. lxviii f. 2.

Clariger exilis figured, SNYDER t.c. pl. lx f. 1.

Inu koma f. 2, *ama* f. 3, figured, SNYDER t.c. pl. lx.

Expedio parvulus figured, SNYDER t.c. pl. lxi f. 1.

Aspasma minima f. 2, *misakia* f. 3, figured, SNYDER t.c. pl. lxix.

BLENNIOIDEA.

Osteology and classification, REGAN Ann. Mag. Nat. Hist. (8) 10 pp. 265-280 figg.

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Alticus margaritarius pl. lxi f. 3, *novemmaculosus* pl. lxix f. 3, figured, SNYDER Proc. U. S. Nat. Mus. 42 1912.

Salarias aldabrensis sp. n. Aldabra, REGAN Trans. Linn. Soc. 15 pt. 2 1912

p. 302.—*S. muscarus* f. 1, *sinuosus* f. 2, figured, SNYDER t.c. pl. lxx.

Enchelyurus hepburni figured, SNYDER t.c. pl. lxx f. 3.

CONGROGADIDAE.

Synopsis of the genera, REGAN Ann. Mag. Nat. Hist. (8) 10 1912 p. 268.

NOTOGRAPTIDAE.

Blanchardia maculata Casteln. = *Notograptus guttatus* Günth., OGILBY Mem. Queensland Mus. 1 1912 p. 216.

CLINIDAE.

Calliblennius nom. n. for *Zacalles* Jord. & Snyder, BARBOUR Proc. Biol. Soc. Washington 25 p. 187.

Emblemaria markii sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 126.

Auchenopterus grandicornis sp. n. Bahama Is., ROSÉN Lund Univ. Årsskr. N.F. 7 Afd. 2 No. 5 p. 69 fig.

XIPHIDIONTIDAE.

Xiphistes versicolor sp. n. Bering Sea, GILBERT & BURKE Bull. U. S. Bur. Fish. 30 p. 88 f. 33.

STICHAEIDAE.

Gumnoclinus gen. n. type *cristulatus* sp. n. Bering Sea, GILBERT & BURKE Bull. U. S. Bur. Fish. 30 p. 86 f. 30.

Alectridium gen. n. near *Alectrias* type *aurantiacum* sp. n. Bering Sea, GILBERT & BURKE t.c. p. 87 f. 31.

Anoplarchus insignis sp. n. Bering Sea, GILBERT & BURKE t.c. p. 88 f. 32.

ZOAROIDAE.

Lycodes bothriocephalus p. 178 pl. x f. 2, *brachycephalus* p. 179 pl. x f. 3, spp. n. Kaiser Wilhelm II Land, PAPPENHEIM Deutsch. Südpolar Exped. 13 Zool. 5 1912.—*L. concolor* sp. n. Antarctic, ROULE & DESPAX Bull. Mus. Paris 1911 p. 280.—*L. camchaticus* sp. n. Kamchatka, GILBERT & BURKE Bull. U. S. Bur. Fish. 30 p. 89 f. 34.

Lycodichthys antarcticus figured, PAPPENHEIM t.c. pls. ix f. 6 & x f. 4.

FIERASFERIDAE.

Fierasfer frantii sp. n. Celebes, POPTA Notes Leyden Mus. 34 1912 p. 185.

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Scorpaena, key to Australian species, p. 94, *S. sumptuosa* figured pl. xiii, McCULLOCH Rec. W. Austral. Mus. 1 1912.

Sebastes tanakae figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. liv f. 2.

Pontinus microlepis sp. n. Bermuda Is., BEAN Proc. Biol. Soc. Washington 25 p. 125.

Apistops gen. n. type *Apistus caloundra*, OGILBY Ann. Queensland Mus. 10 1911 p. 54.

TRIGLIDAE.

Trigla Morphologie der vorderen paarigen Extremitäten, BELLING Moskva Bull. Soc. nat. 1911 1-3 pp. 46-92 pl. ii-iii textf. 1-3.

Lepidotrigla kishinouyei figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lvi f. 3.

Paratrigla gen. n. type *Trigla pleuracanthica*, OGILBY Ann. Queensland Mus. 10 1911 p. 56.

HEXAGRAMMIDAE.

Hexagrammus aburaco = *otakii*, SNYDER Proc. U. S. Nat. Mus. 42 1912 p. 429 pl. lv f. 1.

PLATYCEPHALIDAE.

Platycephalus platysoma sp. n. Baluchistan, ZUGMAYER Ann. Mag. Nat. Hist. ser. 8 10 1912 p. 595.

COTTIDAE.

Cottus nozawae figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lv f. 2; *C. bubalis* 12 inches long, CLARKE Naturalist 1912 p. 191.

Ocynectes modestus figured, SNYDER t.c. pl. lvi f. 1.

Bero zancus figured, SNYDER t.c. pl. lvi f. 2.

Archaulus gen. n. near *Archistes biseriatus* sp. n. Bering Sea, GILBERT

& BURKE Bull. U. S. Bur. Fish. 30 p. 36 f. 1.

Icelus uncinalis Bering Sea p. 39 f. 2, *spatula* Kamchatka p. 41 f. 3, spp. n., GILBERT & BURKE t.c.

Thyriscus gen. n. near *Icelus anoplus* sp., n. Bering Sea, GILBERT & BURKE t.c. p. 43 f. 4.

Artediellus ochotensis p. 44 f. 5, *camchaticus* p. 46 f. 6, *miacanthus* p. 47 f. 7, spp. n., Kamchatka, GILBERT & BURKE t.c.

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Eurymen gen. n. near *Gilbertidia gyrynus* sp. n. Kamchatka, GILBERT & BURKE t.c. p. 64 f. 14.

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Podothecus xyztes figured, SNYDER Proc. U. S. Nat. Mus. 42 1912 pl. lvii f. 2.

CYCLOPTERIDAE.

Cyclolumpus gen. n. *asperrimus* sp. n. Japan, TANAKA Fish. Japan p. 86 pl. xxi.

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XVI. REPTILIA AND BATRACHIA

ARRANGED BY

C. L. BOULENGER

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INDIA : the Game Birds described; **Finn**, 439 : account of the Game-birds, pts. vi-viii; **Baker**, 73 : the food of Indian birds; **Mason & Maxwell Lefroy**, 915.

KASHMIR : bird notes on a short trip; **Magrath**, 892 : additions to the Chitral list; **Wall**, 1560 : also **Kinnear**, 754 : **Magrath**, 898.

PUNJAB : Notes from Lahore; **Jones**, 721 : also **Dodsworth**, 385, 387, 388, 391, 393, 394 : **Magrath**, 827 : **Whistler**, 1587, 1588, 1591, 1592.

BOMBAY PRES. : **Burton**, 217 : **Cooper**, 320 : **Kinnear**, 755 : **Webb**, 1568.

MADRAS PRES.: n. subsp. *Picumnus*; Hartert, 590: also Betham, 125: Stoney, 1418.

CENTRAL PROV.: Notes on a bird collecting trip in the Balaghat district; D'Abreu, 3.

UNITED PROVINCES: n. subsp. *Dryobates*; Hartert, 590.

BENGAL: n. subsp. *Ithaginis* from Sikkim; Beebe, 107.

ASSAM: n. subsp. *Cuculus*; Hartert, 590: also Baker, 174: Gore, 527.

BURMA: a list of birds from Arakan; Hopwood, 681: notes on some birds from the Chindwin valley; Hopwood, 680: notes on some of the bird-life at Thandoung; Cook, 313: some birds from Haka, Chin Hills; Venning, 1541: notes on some Maymyo birds; Harington, 583: also Harington, 584: Venning, 1541.

ANDAMAN ISLES: Whitehead, 1602.

CEYLON: annotated list of the birds of Columbo; Cave, 251: notes on a collecting trip; Henry, 642: n. sp. *Tchitrea*; Sarudny & Härms, 1282: n. sp. *Hydrochelidon*, *Thalasseus*; Mathews, 917.

Malay Peninsula and East India Islands.

DUTCH EAST INDIA ISLANDS: list of birds collected by the author; Dedem, 361.

MALAY PENINSULA: n. subsp. *Picumnus*; Hartert, 590: n. sp. *Abrornis*; Stresemann, 1423.

SUMATRA: 104 new species and subspecies described chiefly from the Barusan Islands; Oberholser, 1019: n. spp. *Muscadivores*, *Thriponax*, *Dicaeum*, *Alcedo*, *Copsychus*; Richmond, 1201: n. subsp. *Collocalia*; Oberholser, 1020.

JAVA: a general account of the bird life; Koningsberger, 781: sp.n. *Pisorhina*; Finsch, 444: also Heeckeren tot Wallén, 607, 608.

BALI, its zoogeographical relations; Stresemann, 1422: *Leucopsar rothschildi* gen et sp. n. described; Stresemann, 1421.

BORNEO: n. subsp. *Cuculus*; Hartert, 590.

CELEBES: n. sp. *Tanygnathus*; Salvadori, 1265.

Indo-China and China (south of the Yangtsze-kiang).

SIAM: n. sp. *Dendrocopus*; Hesse, 658: also Witt, 1634.

COCHINCHINA: review of the Sturnidae; Germain, 505.

CHINA, list of birds hitherto recorded from Yunnan with an account of a collection made by Mr. Owston's Japanese collector; Ingram, 696: n. sp. *Ithaginis* from Yunnan; Beebe, 107: account of a large collection of birds made by Zappey chiefly in Hupeh and Szechwan provinces, China, with descriptions of new forms of *Ithaginis*, *Collocalia*, *Heteroxenicus*, *Tesia*, *Suthora*, *Pnoepyga*, *Oreocincla*, *Reguloides*, *Prinia*, *Sylviparus*, and *Bonaergeres* (*Corvidae*); Thayer & Bangs, 1469: n. sp. *Pucrasia* from Prov. Anhwei; Courtois, 326: n. spp. *Hydrochelidon*, *Gelochelidon*, *Sterna* from Chinese seas; Mathews, 917.

FORMOSA: handlist of the birds; Uchida, 1529: additional notes on birds recently collected by Mr. W. Goodfellow; Ogilvie-Grant, 1029: n. sp. *Ethiopsar* described; Hartert, 595: n. sp. *Abrornis*; Laubmann, 811: sp. n. *Pyrhula*, *Ianthia*, *Horeites*, *Brachypteryx*, *Parus* and *Dicaeum* described; Ogilvie-Grant, 1029, 1032.

PHILIPPINE ISLANDS: n. subsp. *Collocalia*; Oberholser, 1020: also Baer, 64.

AUSTRALIAN REGION.

New Guinea and dependent Islands.

TIMOR GROUP: n. spp. *Dicaeum*, *Neopsittacus* described; Hellmayr, 617.

MOLLUCCAN ISLANDS: notes chiefly taxonomic specially from the southern Moluccan islands with descriptions of new forms of *Anthus*, *Munia*, *Pratincola*, *Phylloscopus*, *Dendrobiastes*, *Centropus*, *Eos*, *Criniger*, *Stigmatops*, *Zosterops*, *Collocalia*; Stresemann, 1424: n. sp. *Phyllergates* and *Stoparola* described; Hartert, 594: n. spp. *Turdus*, *Oreosterops*, *Stigmatops* described from Ceram & Buru; Stresemann, 1421.

DUTCH NEW GUINEA, annotated handlist of the birds collected by the B.O.U. expedition by Ogilvie-Grant; cf. Wollaston, 1637.

BRITISH NEW GUINEA: list of a collection made on the Kumusi River with description of new subsp. of *Pitta*, *Machaerirhynchus*, *Coracina*, *Ptilotis*, *Pinarolestes*; **Rothschild & Hartert, 1245**: list of birds collected at Haidana, Collingwood Bay; **Rothschild & Hartert, 1246**.

GERMAN NEW GUINEA: n. sp. *Pitta*; **Finsch, 443**: n. spp. *Casuarinus*; **Rothschild, 1240**.

Australian Commonwealth.

AUSTRALIA: the petrels and gulls with coloured plates; **Mathews, 917**: a checklist of the birds; **Mathews, 919**: additions and corrections; **Mathews, 920**: nests and eggs of birds breeding in Australia and Tasmania; **North, 1014**: a notice of Mr. Court's Australian eggs; **Shufeldt, 1368**: a discussion on the Australian species of *Cornus*; **Ogilvie-Grant, 1031**: 726 new subspecies described; **Mathews, 919, 920**: n. gen. et sp. *Cuculidae* **Mathews, 922**.

AUSTRALIAN & NEW ZEALAND SEAS: n. spp. *Oceanites*, *Pelagodroma*, *Fregetta*, *Puffinus*, *Majaqueus*, *Pterodroma*, *Prion*, *Pseudoprion*, *Heteroprion*, *Pelecanoides*, *Diomedea*, *Thalassarche*, *Phoebetria*, *Hydrochelidon*, *Sterna*, *Anous*, *Gygis*, *Larus*, *Catharacta*; **Mathews, 917, 919**.

WEST AUSTRALIA: notes from the Stirling ranges; **Whitlock, 1603**: birds observed on Dorré and Bernier Islands; **Lippert, 834**: n. sp. *Cacatua*; **Söderberg, 1392**: **Carter, 242**; **Whitlock, 1604**.

SOUTH AUSTRALIA: field notes on the birds of the Eyre Peninsula, and of the Port Augusta district; **White, 1601**: bird notes from Kangaroo Island; **Mellor, 938**: also **Ashby, 48**; **White, 1600**.

NORTHERN TERRITORY: n. sp. *Neositta*, *Alcyone*; **North, 1015**.

TASMANIA: notes from West Devonport; **Dove, 398**: also **Dove, 400**; **Fletcher, 455**; **Hall, 577**.

VICTORIA: list of birds from the Lake Boga district; **Stone, 1409**: field notes in the Mallee country; **Wilson, 1622**: also **French, 470**.

NEW SOUTH WALES: coloured figures of the insectivorous birds of N.S.W.; **ANON., 28**: on the birds of the small islands off the coast; **Hull, 690**: field notes on the Spotted Bower-Bird and other birds in the Moonie

river district north-west of Sydney; **Jackson, 708**: bird life in the Riverina district; **White, 1599**: bird notes round Cobbora; **Austin, 56**: n. sp. *Pseudogerygone*; **Campbell, 236**.

QUEENSLAND: field notes from the Herberton district; **Dodd, 383**: n. spp. *Ptilonorhynchus*, *Ptilotis*, described; **Campbell, 235**: also **Banfield, 81**; **Illidge, 695**.

New Zealand and dependencies.

NEW ZEALAND: notes on the bush-birds; **M'Lean, 862**: n. spp. *Bowdleria* and *Prosthemadera* described; **Kemp, 745**: also **Mathews, 932**; **Smith, 1383**.

LORD HOWE, NORFOLK and KERMADOC ISLANDS: relationship of the avifaunas of these three groups; **Oliver, 1041**.

KERMADOC ISLANDS; **Bell, 110**.

CAMPBELL ISLAND: subsp. n. *Diomedea* described; **Rothschild, 1242**.

Pacific Islands.

On the distribution of the two species of *Numenius* in the Pacific; **Henninger, 638**.

FIJI ISLANDS: field observations and critical notes on the avifauna; **Bahr & Ticehurst, 67**.

SAMOA; **Henniger, 639**.

NEW CALEDONIA: n. subsp. *Sternula*, *Bruchigavia*; **Mathews, 917**.

ELLICE ISLANDS: n. subsp. *Procelsterna*; **Mathews, 917**.

MARIANNE or LADRONE ISLANDS: notes on the Vertebrate Fauna; **Schnee, 1319**.

HAWAIIAN ISLANDS: n. sp. *Carpodacus*; **Grinnell, 543**: n. sp. *Puffinus*; **Mathews, 917**.

LAYSAN ISLAND: report on an expedition; list of birds and proposals for protecting the bird reservation; **Dill & Bryan, 377**: also **Henning, 637**.

NEOTROPICAL REGION.

General.

A list of the birds of South America; **Brabourne & Chubb, 165**; n. spp. *Capito*, *Aulacorhynchus*, *Pteroglossus*, *Monasa*, *Momotus*, *Electron*, *Eumomota*, *Anrostomus*, *Nyctidromus*, *Nyctibius*; **Ridgway, 1205**.

South America.

ARGENTINE, CHILE and PATAGONIA: passing observations during a journey through; **Blaauw, 143.**

ARGENTINE: n. subsp. *Zonotrichia*; **Hellmayr, 616.**

PATAGONIA: account of Shore-birds and Ducks obtained by the Princeton University Expedition; **Scott & Sharpe, 1343**: notes on the birds of Tierra del Fuego; **Blaauw, 141.**

FALKLAND ISLANDS: 60 photographs of wild life, chiefly birds; **Cobb, 301**: n. sp. *Macronectes*, **Mathews, 917.**

CHILE: *Fringilla nivalis*, ein Bewohner der Hoch-Kordillere; **Fonck, 458**: n. sp. *Pelecanoides*, *Procelsterna*, **Mathews, 917.**

PARAGUAY: annotated list of birds collected by Señor Posner at Villa Rica; **Dabbene, 341.**

BOLIVIA: n. sp. *Chamaeza*; **Hellmayr u. v. Seilern, 618.**

PERU: n. sp. *Automolus* and *Thamnophilus* described and other rare birds noticed; **Hellmayr, 615**: n. sp. *Coereba*; **Lowe, 846.**

BRAZIL: annotated lists of collections made near Para and on the islands of Mexiana and Marajo by Mr. L. Müller; **Hellmayr, 614**: n. spp. *Conopophaga*, *Vireolanius*, *Knipolegus*, *Platyrrhynchus*, *Hypocnemis*; **Berlepsch, 118**: n. sp. *Myrmotherula*, *Picumnus*, *Momotus*; **Snethlage, 1385**: n. sp. *Coereba*; **Lowe, 846.**

EQUADOR: list of birds collected by Dr. Rivet of the French expedition for measuring the arc of meridian in 1899-1906; **Menegaux, 939**: list of birds collected at Baños, with description of a new form of *Picolaptes*; **Menegaux, 944**: stray bird notes on the Paramo; **Rhoads, 1193**: n. sp. *Synallaxis*; **Stone, 1416.**

GALAPAGOS ISLANDS: n. sp. *Puffinus*, **Mathews, 917.**

DUTCH GUIANA: field notes on the birds of Surinam; **Heurn, 665.**

BRITISH GUIANA: taxonomic notes on some birds; **Brabourne and Chubb, 166.**

VENEZUELA: on a collection made by Mr. Klages in the "Cumbre de Valencia" with descriptions of new forms of *Tangara*, *Xanthoura*, *Myiodynastes*,

Pseudocolaptes, *Sittasomus*, *Premnoplex*, *Drymophila*, *Automolus*; **Hellmayr u. Seilern, 618, 620**: n. spp. *Arremonops*, *Saltator*, *Schistochlamys*, *Compsothlypis*, *Pheugopedius*, *Troglodytes*, *Craspedoprion*, *Myiobius*, *Myiochanes*, *Myiodynastes*, *Machetornis*, *Euchlornis*; **Todd, 1498.**

COLUMBIA: diagnoses of new species and subspecies of *Crypturus*, *Chamaepetes*, *Leptotila*, *Pionopsitta*, *Capito*, *Veniliornis*, *Rhamphocaenus*, *Drymophila*, *Formicarius*, *Grallaria*, *Upucerthia*, *Synallaxis*, *Picolaptes*, *Xenicops*, *Knipolegus*, *Muscisaxicola*, *Myiodynastes*, *Tyranniscus*, *Platypsaris*, *Attila*, *Rupicola*, *Phaeoprogne*, *Troglodytes*, *Thryophilus*, *Cinnicerthia*, *Planesticus*, *Vireosylva*, *Basileuterus*, *Spinus*, *Ammodramus*, *Myospiza*, *Atlapietes*, *Cyanocompsa*, *Diglossa*, *Sporathraupis*, *Chlorospicus*; **Chapman, 260**: n. sp. *Chrysophilus*, **Madarasz, 868**: n. spp. *Sporophila*, *Penelope*; **Todd, 1498.**

Central America.

PANAMA: 26 new species and 3 new genera described; **Nelson, 992, 993**: n. subsp. *Piaya* described; **Todd, 1498.**

COSTA RICA, n. subsp. *Tangara* described; **Todd, 1498.**

West Indies.

WEST INDIES: n. subsp. *Butorides*, *Ardea*; **Oberholser, 1021, 1022**: n. subsp. *Melanosterna*, *Megalopterus*, **Mathews, 917.**

TRINIDAD, sp. n. *Chiromachaeris*; **Hartert, 593**: n. subsp. *Grallaria* and *Geotrygon*; **Hellmayr and Seilern, 619**: n. subsp. *Tangara* described; **Todd, 1498.**

CUBA: **Ramsden, 1158, 1159, 1160, 1161, 1162, 1163**: **Oberholser, 1018.**

SWAN, BLANQUILLA and HERMANOS ISLANDS: notes on avifauna and some problems of their distribution discussed; **Lowe, 843.**

NEARCTIC REGION
(including Mexico).

General.

A new and revised edition of the Handbook of birds of Eastern North America; **Chapman, 258.**

Sixteenth supplement to the American ornithologist's union check-list of North American birds; **Allen, 13.**

The water birds game birds and birds of prey east of the Rockies; **Reed, 1172.**

A new division of North America into faunal regions; **Trotter, 1509**: n. subsp. *Butorides* and *Ardea*; **Oberhoser, 1021, 1022.**

Mexico.

MEXICO: descriptive catalogue of the birds; **Herrera, 645**: n. sp. *Ardea*; **Thayer and Bangs, 1470.**

Western United States.

CALIFORNIA: a systematic list of the birds of the State; **Grinnell, 548**: annotated list of the birds of the Pacific Slope of S. California; **Willett, 1615**: some 1912 spring notes from southern California; **Willett, 1614**: February bird notes from Palm Springs; **Grinnell, 545**: rare takes for San Mateo county; **Littlejohn, 835**: Notes from the San Joaquin valley; **Mailliard, 903**: Birds of a Mohave desert oasis; **Lamb, 801**: The shore birds of Santa Barbara; **Bowles and Howell, 161**: Recent Santa Barbara records; **Dawson, 360**: Notes from Todos Santos islands; **Howell, 689**: The present and future status of the California valley Quail; **Bryant, 200**: n. sp. *Puffinus*, **Mathews, 917.**

CALIFORNIA: minor notices:—**Bowles, 159, 160**; **Bryant, 201**; **Clay, 295, 296**; **Dixon, 380**; **Grinnell, 544, 547**; **Howell, 688**; **Law, 818**; **Mailliard, 900, 901, 904**; **Ray, 1169.**

ARIZONA: A week afield in the southern districts; **Willard, 1611**: Two new records. *Grus canadensis* and *Clangula clangula americana*; **Sloanaker, 1371**: also **Stafford, 1398**; **Willard, 1612, 1613.**

NEW MEXICO: list of birds observed in October at the head waters of the Gila river; **Bergtold, 117**: Birds of the cottonwood groves; **Bailey, 69**: also **Bergtold, 116**; **Merrill, 951.**

COLORADO: a history of the birds of the State; **Sclater, 1340**: The present status of its check-list of birds; **Cooke, 319**: a survey of the life zones and lists of breeding birds arranged accordingly; **Cary, 243**: notes from the north-central districts; **Warren, 1565**:

notes on the wading birds of the Barr lake region; **Rockwell, 1223**: Three new bird records, *Calcarius lapponicus lapponicus*, *Uylocichla guttata sequoiensis* and *Planesticus migratorius migratorius*; **Hersey, 647, 648**: also **Betts, 126.**

NEVADA: faunal features of Humbolt county and a list of birds observed with field-notes; **Taylor, 1454**: a journey to the Star lake country and other notes from the Tahoe region; **Ray, 1168**: bird-notes in the Tahoean mountains; **Ray, 1166**: also **Ray, 1167.**

OREGON: **Anthony, 31**; **Jewett, 712**; **Stover, 1419.**

WASHINGTON: birds of the Olympic peninsula; **Reagan, 1170**: also **Edson, 415**; **Getty, 506.**

MONTANA: some birds of the southwest of the State; **Saunders, 1292**: field-notes during a hurried ride across the State; **Saunders, 1294**: also **Saunders, 1293, 1295.**

IDAHO: some birds of the Saw-tooth mountains; **Jewett, 714**: first record of *Zonotrichia albicollis*; **Wyman, 1650.**

WYOMING: **Palmer, 1068.**

Middle United States.

TEXAS: recent records from the valley of the lower Rio Grande; **Smith, 1377**; n. subsp. *Buteo* described; **Bishop, 138**: additions to birds of Kerrville; **Lacey, 799**: also **Smith, 1376.**

ARKANSAS: **Wetmore, 1583.**

MISSOURI: **Fleming, 454.**

KANSAS: a list of the birds of Sedgwick county; **Isely, 702.**

SOUTH DAKOTA: report on the fauna of the eastern part of the Rosebud reservation, now known as Gregory county; **Jones, 724**: notes on the fauna of the Rosebud reservation, west of Gregory county; **Reagan, 1171**: a list of the birds of the Pine Ridge reservation; **Visher, 1553**: a preliminary list of the summer birds of Fall River county; **Visher, 1552**: additions to a list of the birds of Harding county; **Visher, 1550**: also **Visher, 1551.**

NORTH DAKOTA; **Shufeldt, 1366**; **Young, 1651.**

MINNESOTA: **Lano, 808, 809.**

IOWA: a handbook for the identification of the common wild birds; **Bailey, 68**: also **Gabrielson, 481**: **Jones, 723**: **Sherman, 1361, 1362**: **Sloanaker, 1372**.

WISCONSIN: **Coale, 300**: **Hollister, 678**: **Mitchell, 966**: **Ward, 1564**.

ILLINOIS: **Aldrich, 8**: **Peabody, 1097**: **Schautz, 1301**: **Woodruff, 1639**.

INDIANA: tentative list of birds of St. Joseph county; **Alphonsus, 15**: notes on the birds of Notre Dame; **Alphonsus, 17**.

MICHIGAN: list of birds occurring in the State, with keys, descriptions and life histories; **Barrows, 93**: some additions to a list of the winter birds; **Swales, 1440**: *Sula bassana* recorded; **Wood, 1638**: also **Swales, 1438, 1439**.

OHIO: a study of the avifauna of the Lake Erie islands; **Jones, 722**: notes from the Tri-reservoir region; **Henninger, 641**: ecological notes on birds; **Dury, 412**: also **Henninger, 640**: **Morse, 980**: **Stover, 1420**: **Wisman, 1626**.

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FLORIDA: a March bird list from the Caloosahatchee river and Lake Okeechobee; **Phelps, 1115**: n. subsp. *Melospiza*; **Bangs, 83**.

GEORGIA: **Palmer, 1067**: **Wayne, 1567**.

SOUTH CAROLINA, additional bird notes; **Bragg, 169**: also **Mitchell, 967**: **Sass, 1283**: **Wayne, 1566**.

NORTH CAROLINA: notes on the birds observed on a trip through the mountains; **Bruner & Feild, 197**: notes on the birds of Chapel Hill; **Feild, 433**.

VIRGINIA: notes on birds breeding in the mountains; **Bailey, 70**: annotated list of birds observed in Montgomery county; **Smith, 1384**: also **Brown, 194**.

WEST VIRGINIA: **Brooks, 190**.

PENNSYLVANIA: the frontier of the Carolinian fauna in the lower valley of the Delaware; **Trotter, 1508**: an annotated list of the breeding birds of southern Center county; **Harlow, 586**: birds of the "Center Furnace Swamp"; **Harlow, 587**: also **Behr, 108**: **Mengel, 948**: **Miller, 960**: **Stone, 1410**.

NEW JERSEY: winter notes; **Kohler, 771**: also **Allen, 14**: **Harlow, 585**:

Kohler, 772, 773: **Kuser, 798**: **Moore, 972, 973**.

NEW YORK: some bird notes from New York city; **Hix, 672**: a list of birds observed at Prospect Park, Brooklyn; **M., 858**: annotated list of birds of the Niagara neighbourhood; **Rheinecke, 1192**: also **Boyle, 164**: **Clarke, 288**: **Crosby, 334, 335**: **Griscom, 549**: **Helmuth, 626**: **Johnson, 716**: **Miller, 981**: **Pennock, 1105**: **Weber, 1569**.

CONNECTICUT: **Brockway, 186**: **Dow, 401**: **Lacey, 800**: **Sage, 1260**: **Smith, 1382**.

MASSACHUSETTS: an annotated list of the birds of the eastern portion of the State; **Morse, 979**: report of the present condition of the Heath Hens on Martha's Vineyard Isld; **Field, 438**: notes on New England birds; **Thoreau, 1484**: *Myiarchus crinitus*. in December at Cambridge; **Wright, 1644**: also **Barrett, 90**: **Fay, 430**: **Morris, 978**: **Wright, 1643, 1645**.

NEW HAMPSHIRE: the birds of the Jefferson region in the White mountains; **Wright, 1647**: also **Vietor, 1547**.

MAINE: **Brock, 183**: **Clark, 283**: **Norton, 1017**: **Stanwood, 1401**: **Stevens, 1407**.

Canada and Newfoundland.

NEW BRUNSWICK: notes on the summer birds of the St. John valley; **Townsend, 1499**: also **Jewett, 713**.

NOVA SCOTIA: n. subsp. *Bonasa*; **Bangs, 82**.

NEWFOUNDLAND, observations during a short summer outing; **Arnold, 40**: notes on birds observed—summer of 1912; **Brown, 196**: n. subsp. *Loxia* described; **Bent, 113**: also **Brown, 195**.

QUEBEC: notes from the Magdalen islands; **Brooks, 191**: also **Moore, 971**: **Terrill, 1459**.

ONTARIO: a study of the avifauna of the Lake Erie islands; **Jones, 722**: *Scotiaptex nebulosa* obtained, first record for Canada; **Taverner, 1453**: also **Calvert, 234**: **Fleming, 453**: **Sanders, 1296, 1297**.

MANITOBA: occurrence of *Tyrannus verticalis*; **Speechly, 1396**.

ALBERTA: **Brooks & Cobb, 193**: **Cooke, 316**.

BRITISH COLUMBIA : some new records ; **Brooks, 189** : a visit to Nootka sound ; **Swarth, 1443** : field-notes on a collection of birds made in Vancouver Island ; **Swarth, 1442** : *Arquatella m. couesi* in Vancouver Is., first record for Canada ; **Taverner, 1453**.

MACKENZIE : list of birds noticed on the Seton expedition of 1907 to Athabasca and Great Slave Lakes ; **Seton & Prebble, 1358**.

Alaska.

ALASKA : field notes on the birds of the Aleutian Islands and Bering Sea ; **Bent, 112** : n. subsp. *Lagopus* described ; **Bent, 111** : also **Swarth, 1444**.

Greenland.

GREENLAND : notes on rare birds and on *Chondestes streperus* and *Passerella iliaca* new to that country ; **Schjoler, 1312** : two new records *Turdus iliacus* and *Totanus totanus* ; **Gronberger, 550**.

OCEANS.

ATLANTIC OCEAN : birds observed on a voyage from Holland to South America ; **Hearn, 664** : n. spp. *Prion*, *Megalopterus* ; **Mathews, 917**.

PACIFIC OCEAN : n. spp. *Majaqueus*, *Macronectes*, *Pseudoprion*, *Thalassarche*, *Gelochelidon* ; **Mathews, 917**.

INDIAN OCEAN : n. spp. *Puffinus*, *Macronectes*, *Prion*, *Pseudoprion*, *Thalassarche*, *Thalassogeron*, *Gygis* ; **Mathews, 917** : also **Oort, 1051**.

ANTARCTIC SEAS : n. sp. *Pagodroma*, *Macronectes* ; **Mathews, 917**.

III.—SYSTEMATIC.

The arrangement of Sharpe's "Handlist of birds" is here used ; where generic names differ, the name in the Handlist is prefixed in square brackets.

ORDER STRUTHIONIFORMES.

Struthio camelus, domestication and breeding in Algeria, **MENEGAUX, Rev. Sci. Paris 50** (2. semest.) 1912 p. 44 : domestication in Madagascar, **SCHULER, Rev. Fr. d'Orn. 2** p. 273.

ORDER CASUARIIFORMES.

Dromiceius novae-hollandiae woodwardi, p. 175 N.W. Australia, *D. n. rothschildi* p. 175 S.W. Australia, subsp. n., *D. spenceri* nom. n. pro *D. minor* **Spencer p. 176, MATHEWS, Nov. Zool. 18**.

Peronista gen. n. for type *Dromaius peroni*, **Rothschild, MATHEWS, Austr. Av. Rec. 1** p. 107.

Casuarius casuarius johnsonii, on the coloration of the head and neck, **MATHEWS, Austral. Av. Rec. 1** p. 66 pl. i.—*C. bennetti*, die Verschiebung des Sternums, **KOTHE, SitzBer. Ges. natf. Freunde 1911** p. 384.—*C. keysseri* sp. n. German New Guinea, with remarks and complete list of other species of the genus, **ROTHSCHILD, Bull. B. O. C. 29** p. 49.

ORDER TINAMIFORMES.

Tinamus latifrons, figured from Ecuador, **MENEGAUX** (see No. 939 p. 3 pl. i).

Crypturus soui caucae subsp. n. Western Columbia, **CHAPMAN, Bull. Amer. Mus. N.H. 31** p. 141.

Rhynchotus rufescens, on the histology of the uropygial gland, **PARIS, C. R. ass. franç. avanc. sci. 40** p. 526.

Nothura maculosa, characteristic features of the young, **GRANT, Ibis 1912** p. 274 fig. 4.

ORDER GALLIFORMES.

British Game birds described and illustrated, **OGILVIE - GRANT, London 1912 4to**.

The Game birds of South Africa figured and described, **HORSBRUGH, London 1912 4to**.

The Game birds of India, **FINN, Calcutta 1911 8vo**.

Pheasants and how to rear them in the covert or aviary, the principal species figured and their diseases, **BARTON, London 1912 8vo**.

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N. W. Australia, *C. roseicapilla kuhli* p. 266 N. Terr., *C. r. assimilis* p. 266 W. Australia, *C. r. derbyana* p. 266 N. W. Australia, **subsp. n.**, MATHEWS, Nov. Zool. 18.—*C. leadbeateri aberrans* **subsp. n.** West Australia, SÖDERBERG, Ornith. Monatsber. 20 p. 41; is identical with *C. leadbeateri mungi* Mathews, MATHEWS, Austral Av. Rec. 1 p. 36.

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[*Nanodes*] *Lathamus discolor tre-gellasi* **subsp. n.** Victoria, MATHEWS, Nov. Zool. 18 p. 279.

Melopsittacus undulatus intermedius, North Terr. and *M. u. pallidiceps* N. W.

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Sub-Order Podargi.

Podargus strigoides melvillensis **subsp. n.** Melville Is. N. Australia, MATHEWS, Austral Av. Rec. **1** p. 37; *P. papuensis baileyi* p. 281 N. Queensl., *P. p. conigravi* p. 281 Waigeau Is., *P. p. rogersi* p. 281 N. Queensl., *P. strigoides cornwalli* p. 282, *P. s. victoriae* p. 282 Victoria, *P. s. rossi* p. 282 S. Australia, *P. s. mungi* p. 283 N. W. Australia, *P. s. dendyi* p. 283 N. W. Australia **subsp. n.**, MATHEWS, Nov. Zool. **18**.

Aegotheles cristata murchisoniana **subsp. n.** Mid Australia, MATHEWS, Nov. Zool. **18** p. 284.

Sub-Order Coraciae.

Coracias garrula, taken near St. Omer, France, KEMPEN, Rev. Fr. d'Orn. **2** p. 425.—*C. garrula caucasica* **subsp. n.** Batoum (Russ.), NESTEROV, Mess. ornith. **3** p. 156.

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Alcedo ispida found near Simla, DODSWORTH, Bombay J. Nat. Hist. Soc. **21** p. 661; feeding its young with frogs, MAGRATH, Bombay J. Nat. Hist. Soc. **21** p. 661.—*A. meninting callima*, *A. m. subviridis* **subsp. n.** Barussan Isles, Sumatra, OBERHOLSER, Smiths. Inst. Misc. Collect. **60** No. 7 p. 7.—*A. meninting proxima* **subsp. n.** Pagi Is. Sumatra, RICHMOND, Proc. Biol. Soc. **25** p. 104.

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Micralcyone **gen. n.** for type *Alcyone pusilla halli*, MATHEWS, Aust. Av. Rec. **1** p. 107.

Ceyx enopopygius **sp. n.** E. Sumatra, OBERHOLSER, Smiths. Inst. Misc. Collect. **60** No. 7 p. 7.

Dacelo leachii nana p. 37 Melville Is. N. Australia, *D. l. cliftoni* p. 37 Mid Westralia *D. l. kempi* p. 89 N. Queensland, **subsp. n.**, MATHEWS, Austral Av. Rec. **1**; *D. gigas tregellasi* Victoria, *D. leachii mungi* N.W. Australia, MATHEWS, Nov. Zool. **18** p. 287.

Halcyon macleayii publa and *H. sordidus melvillensis* Melville Is. N. Australia, **subsp. n.**, MATHEWS, Austral Av. Rec. **1** p. 38; *H. macleayii distinguendus* p. 288, *H. pyrrhopygius obscurus* p. 288 N.W. Australia, *H. sanctus ramsayi* p. 289 N. W. Australia, *H. s. confusus* p. 289 N. Queensl., *H. sordidus cooktowni* p. 289 N. Queensland, **subsp. n.**, MATHEWS, Nov. Zool. **18**.—*H. pyrrhopygius utingi* **subsp. n.** N. Queensl., MATHEWS, Austr. Av. Rec. **1** p. 118.

Sauropatis Cab. & Heine and *Cyanalcyon* Bp., these generic names must be utilized for the Australian Kingfishers hitherto placed in *Halcyon*, MATHEWS, Austr. Av. Rec. **1** p. 107.

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ARRANGED BY

R. LYDEKKER, F.R.S.

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†*Brachyostracon* g. n. for *B. cylindricus* sp. n. Pleistocene Mexico p. 169, genus also including *B. mexicanus* (Cuatapáro and Ramirez 1874) p. 168, Glyptodonts divided into *Glyptodontidae*, *Sclerocalyptidae* and *Doedicuridae* p. 175, BROWN Bull. Amer. Mus. Nat. Hist. 31.

Myrmecophaga tridactyla artatus subsp. n. Venezuela, OSGOOD Field Mus. Zool. Pub. 10 p. 40.

Orycteropus Sperrnien, BALLOWITZ Anat. Anz. 42 p. 182.

†*Plesiomegatherium* g. n. for *P. hansmeyeri* sp. n. Tertiary Argentina, ROTH Rev. Mus. La Plata 18 p. 7.

Tatu novemcinctum polyembrionic development, PATTERSON Anat. Anz. 41 p. 369; ovum, NEWMAN Biol. Bull. Woods Hole 23 p. 100.

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Development mammary structures, BRESSLAU No. 79; genitalia, FLYNN Proc. R. Soc. Tasmania 1911 pp. 120 & 144; Palæontology, GREGORY, Bull. Geol. Soc. Amer. 23 p. 187; Notes W. Australian Pleistocene, GLAUERT Rec. W. Australian Mus. 1 pp. 39 47.

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†*Diprotodon australis* note, GLAUERT Rec. West. Austral. Mus. 1 p. 46.

Glironia g. n. p. 239 for *G. venusta* sp. n. Peru p. 240, THOMAS Ann. Mag. Nat. Hist. ser. 8 9; second example, THOMAS op. cit. 10 p. 47.

Macropus rufus retarded development, CARSON Proc. Zool. Soc. 1912 p. 234.

Marmosa isthmica 56 No. 36 p. 1, *invicta* 60 No. 2. p. 3, GOLDMAN Smithson. Misc. Collect. Panama; *mitis pallidiventris* Colombia, OSGOOD Field Mus. Zool. Pub. 10 p. 39, spp. et subsp. n.

Metachirus nudicaudatus dentaneus sp. n. Panama, GOLDMAN Smithson. Misc. Collect. 56 No. 36 p. 2

†*Nototherium* var. nov., GLAUERT Rec. West. Austral. Mus. 1 p. 39.

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Sarcophilus harrisi earliest name of Tasmanian Devil, THOMAS Washington Proc. Biol. Soc. 25 p. 116; *ursinus* remains of this and other mammals in Victoria, MAKONY Victorian Nat. 29 p. 43.

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†*Dipriodon valdensis* sp. n. Wealden Hastings, WOODWARD Q. J. Geol. Soc. 67 p. 279 1911.

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- Aarsb. Norges Fiskerier, Bergen.*—Aarsberetning vedkommend Norges Fiskerier, Bergen. 2 Nor.
- Aarsb. off. Foranst. Landb., Kristiania.*—Aarsberetning angaaende de offentlige Foranstaltninger til Landbrugets Fremme. 1 Nor.
- Abeille, Paris.*—Abeille (l'). Sec. Bedel, Paris. [irrégul.] 2 Fr.
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- Acireale, Rend. Mem. Acc. Zelanti.*—Rendiconti e Memorie della R. Accademia degli Zelanti, Acireale. 1 It.
- Actes Mus. hist. nat., Rouen.*—Actes du Muséum d'histoire naturelle. Rouen (Seine-Inférieure). [irrégul.] 5 Fr.
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- Agric. colon., Firenze.*—Agricoltura (L') Coloniale. Organo dell' Istituto Agrario Coloniale Italiano e dell' Ufficio Agrario sperimentale dell' Eritrea. Firenze. — It.
- Agric. Gaz., Sydney, N.S.W.*—Agricultural Gazette, Sydney, N.S.W. 1 N.S.W.
- Agric. litt. Mer. Noire, Novorossijsk.*—1 Черноморское сельское хозяйство: органъ Сухумскаго общества сельскаго хозяйства. Новоросіискъ [Agriculture du littoral Rus. de la Mer Noir; bulletin mensuel de la Société agricole de Soukhoun-Kate, Novorossijsk]. — Rus.
- Akad, Ért., Budapest.*—Akadémiai Értesítő, Budapest. [Akademischer Anzeiger, Budapest.] — Hun.
- Akvarium, Moskva.*—Акваріумъи комнатныя растенія. Сборникъ издаваемый Московскимъ Обществомъ Любителей акваріума и комнатныхъ растеній. Москва [L'aquarium et les plantes d'appartement. Recueil édité par la Société des Amateurs d'aquariums et des plantes d'appartement. Moscou]. — Rus.

- Alabama, Bul. Geol. Surv. University P.O.*—Bulletin of the Geological Survey of Alabama, University P.O. 1 U.S.
- Albany Univ., N.Y., Bul. St. Mus.*—Bulletin of the New York State Museum. University of the State of New York, Albany, N.Y. 4 U.S.
- Albany, N.Y., St. Educ. Dep. Mus. Bul.*—New York State Education Department, New York State Museum Bulletin, Albany, N.Y. 4 U.S.
- Albany, N.Y., St. Educ. Dept. Mus. Mem.*—New York State Education Department. New York State Museum Memoirs, Albany, N.Y. 5 U.S.
- Albany, N.Y., St. Educ. Dept. Mus. Rep.*—New York State Education Department. New York State Museum Annual Report, Albany, N.Y. 6 U.S.
- Albany, N.Y., Trans. Alb. Inst.*—Transactions of the Albany Institute, Albany, N.Y. 7 U.S.
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- Allg. Fischereiztg., München.*—Allgemeine Fischerei-Zeitung, red. v. B. Hofer, F. Fischer u. H. Reuss. München. [$\frac{1}{2}$ monatl.] 24 Ger.
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